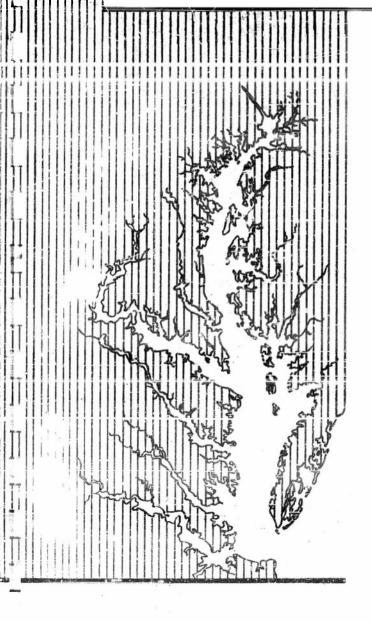


THE CHESAPEAKE BAY INSTITUTE of The Johns Hopkins University



DATA REPORT 16

PATUXENT RIVER SPRING CRUISE

3 April - 8 April 1952

November 1953 Reference 53-14

CHESAPEAKE BAY INSTITUTE THE JOHNS HOPKINS UNIVERSITY

DATA REPORT 16

PATUXENT RIVER-SPRING CRUISE 3 April - 8 April 1952

This report contains results of work carried out for: the Office of Naval Research of the Navy Department under research project NR 083-016, Contract Nonr 248(20), and research project NR 083-070, Contract Nonr 248(30); the State of Maryland (Department of Research and Education); and the Commonwealth of Virginia (Virginia Fisheries Laboratory).

November 1953 Reference 53-14 D. W. Pritchard Director The data presented in this report were collected in the Patuxent River during the period 3 April to 8 April 1952.

The purpose of this cruise was to study the physical and chemical structure of the area in the spring season.

The presentation of data in this report does not constitute publication and the information may be subject to modification at a later date.

Location of Stations

An arbitrary line designating the mouth of the river was chosen from Little Cove Point to Cedar Point. The stations were chosen upstream from this line in the deepest part of the channel. The station designators consist of the letters PX followed by the numerals representing the number of miles (nautical) to the nearest mile upstream from the mouth of the river. Thus PX-21 is the station 21 miles upstream from the line designating the mouth of the river.

Observations

Current speed and direction were measured with the confined submerged drags described in Chesapeake Bay Institute Technical Report No. 1.

Temperature and salinity were determined by means of the Conductivity-Temperature-Indicator (CTI). (See Data Report 13, reference 53-4.)

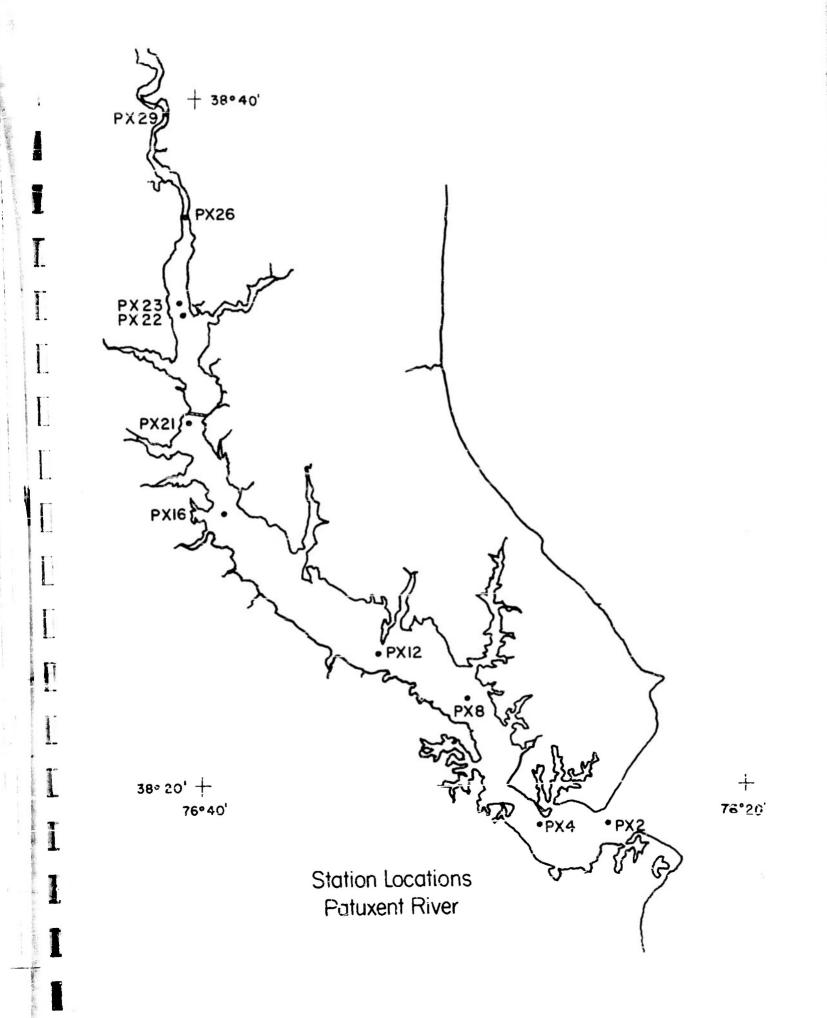
Oxygen was determined by the modified Winkler titration method.

pH was determined with a Beckman pH meter.

Turbidity, inorganic phosphate, and chlorophyll were determined by the methods outlined in Data Report 12, reference 52-21.

Alkalinity was determined by the method found in <u>Industrial</u> and <u>Engineering Chemistry</u>, Analytical Edition, Volume 18, No 12, 1946.

Weather is reported in U. S. Weather Bureau code.
Wind force is given in Beaufort scale units.



Section A
Salinity, Temperature, Current, and Meteorological Data

PX-2 3 Apr	_	00 EST pth 54'	Wind	her 01 W-5 13.9°C	PX-2 5 Apr		O EST	Weath Wind Air l	W-3
Depth (ft)	Temp	Sal (c/oo)	Cur Dir (CT)	rent Speed (kts)	Pepth (ft)	Temp (°C)	Sal (c/oo)	Cur Dir (°T)	rent Spe (kt
0 5 10 15 20 25 30 45 45 48 50 51	10.19 10.10 9.68 9.52 9.38 9.34 9.28 8.74 7.73 7.29 6.91 6.90	10.42 10.44 10.50 10.58 10.68 10.72 10.77 11.07 11.07 11.91 12.31	079 078 080 082 081 071 081 079 085 091	0.41 0.34 0.39 0.31 0.18 0.29 0.18 0.37 0.26 0.16	0 5 10 15 20 25 30 35 40 45 50 53	10.52 10.44 9.99 9.51 9.41 9.22 8.97 7.30 6.98 6.92	10.42 10.45 10.47 10.63 10.67 10.77 10.95 11.49 12.15 12.56 12.63 12.74	038 065 058 033 101 093 081 246 241 263 223	0.4 0.3 0.2 0.2 0.2 0.1 0.1 0.2 0.2
PX-2 3 Apr		00 EST pth 54'	Wind	her 00 W-2 13.9°C	PX-2 3 Apr 5		O EST	Weath Wind Air 1	W-3

PX-2 3 Apr	1 ¹ 52 De	Wind	her 00 W-2 13.9°C	
Depth (ft)	Temp (°C)	Saī. (o/co)	Cur Dir (T)	rent Spec (kts
0 5 10 15 20 25 30 45 50 45 51	10.37 10.34 10.21 9.61 9.21 9.17 8.99 8.29 7.44 6.83 6.80	10.35 10.37 10.38 10.43 10.70 10.77 10.89 11.27 12.00 12.53 12.75	098 108 091 093 083 098 105 087 0 255 218 213	0.24 0.24 0.21 0.20 0.12 0.27 0.20 0.00 0.11 0.15

(Although)

Air 14.4°C				
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	10.41 10.39 10.18 9.63 9.47 8.56 9.33 7.82 7.43 7.28 6.99 6.98	10.40 10.41 10.48 10.58 10.63 11.04 11.35 11.75 12.51 12.51 12.59 12.63	123 083 051 106 123 055 086 308 253 193 203	0.20 0.22 0.18 0.11 0.12 0.15 0.20 0.32 0.34 0.57

		0 EST th 54°	Weathe Wind Wind Wind Wind Wind Wind Wind Wind	i-2
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (Or)	rent Speed (kts)
0 5 10 15 20 25 30 35 45 50 53	10.27 10.25 10.16 9.41 8.68 8.45 8.44 7.59 7.50 7.05	10.46 10.48 10.51 10.65 11.14 11.26 11.28 11.60 11.97 12.51 12.54	070 0 0 250 251 250 251 249 239 235 227 229	0.18 0.00 0.00 0.29 0.39 0.41 0.45 0.56 0.59 0.45 0.43

PX-2 3 Apr 5	PX-2 1900 EST 3 Apr 52 Depth 54			er Ol SSE-3
Depth (ft)	Temp (°C)	Sel (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50 52	10.11 10.06 9.89 9.58 9.21 9.10 9.02 8.80 7.72 7.53 7.25 7.19	10.44 10.52 10.62 10.70 10.80 10.85 10.86 10.92 11.87 12.40 12.49	257 257 257 252 253 252 252 247 248 252 252	0.22 0.29 0.39 0.51 0.54 0.58 0.59 0.59 0.43 0.34

PX-2 3 Apr 5		800 EST Weather 0 epth 54' Wind SE-3 Air 15.6		SE-3
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	Speed (kts)
0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	10.22 10.23 9.57 9.25 8.98 8.29 8.27 7.45 7.17	10.47 10.50 10.70 10.80 10.96 10.98 11.28 11.35 11.75 12.43	0 242 243 243 241 241 243 241 243 241	0.00 0.18 0.41 0.54 0.54 0.56 0.56 0.45 0.39 0.31

PX-2 3 Apr		C EST th 54'	Wind	er 02 SSE-2
Depth (ft)	Temp (oC)	Sal (c/cc)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 25 25 35 45 55 45 55	10.12 10.11 10.12 10.11 10.03 9.69 9.61 9.39 7.67 7.35 7.16	10.50 10.50 10.51 10.51 10.61 10.64 10.70 11.67 11.98 12.34 12.53	257 258 252 257 252 252 248 247 242 253 253	0.26 0.31 0.29 0.45 0.45 0.49 0.59 0.31 0.18

	PX- 2 3 Apr 5		O EST th 54'	Weathe Wind S Air 1	SSE-5
	Depth	Temp	Sal	Cur	rent Speed
	(ft)	(∞)	(0/00)	(T)	(kts)
T	0	10.20	10.16	274	0.29
1	5	10.15	10.23	265	0.41
	10	10.02	10.52	268	0,41
1	15	9.98	10.57	261	0.51
ļ	20	9.98	10.58	260	0.51
	25	9.87	10.62	260	0.51
	30	9.66	10.68	259	0.51
	35	8.36	11.20	260	0.29
	40	7.86	11.75	254	0.18
	45	7.61	12.07	348	0.12
1	50	7.43	12.26	348	0.12
	53	7.17	12.48		

PX-2 2500 EST 5 Apr 52 Depth 54'			Weath Wind Air 1	SE-3
Depth (ft)	Temp	<u>Sal</u> (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	10.19 10.21 10.23 10.12 10.14 10.14 10.15 9.93 9.32 8.45 7.14 7.06	9.80 9.80 10.42 10.45 10.45 10.67 10.67 11.32 12.50 12.60	253 254 065 063 082 144 139 139 130 067 059	0.14 0.09 0.14 0.16 0.24 0.28 0.34 0.41 0.41 0.29 0.41

PX-2 3 Apr		oth 55'	Weath Wind Air l	SSE-3
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50 54	10.23 10.24 10.23 10.18 10.09 9.93 9.75 9.05 8.10 7.57 7.00	9.75 9.79 9.79 9.81 10.26 10.56 10.63 10.88 11.51 12.16 12.66	255 247 255 255 251 061 048 047 256	0.25 0.26 0.20 0.19 0.09 0.11 0.19 0.14 0.19

		OO EST oth 53'	Wind	er Ol SSE-2 1.7°C
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (CT)	rent Speed (kts)
0 5 10 15 20 25 30 55 45 50 53	10.18 10.15 10.08 10.05 9.94 9.93 9.92 9.90 9.86 9.19 7.11 7.03	9.80 10.15 10.33 10.40 10.57 10.58 10.60 10.63 10.64 10.93 12.50 12.63	0 071 081 081 081 083 082 083 083 073	0.00 0.22 0.41 0.51 0.52 0.59 0.59 0.41 0.43

PX-2 4 Apr		0100 EST Depth 54'		er 02 SE-1 1.7°C
Depth (ft)	Temp (°C)	Sa.l. (o/oo)	Curi Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	10.09 10.16 10.14 10.12 10.03 9.96 9.94 9.92 9.68 8.66 7.65 7.03	9.87 10.18 10.39 10.42 10.54 10.59 10.60 10.61 10.59 11.21 12.02 12.63	233 233 193 253 253 243 243 243 233 233	0.18 0.31 0.34 0.37 0.37 0.37 0.41 0.41 0.45 0.51 0.43

PX-2		O EST th 54'	Weath Wind Air l	SE-1
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50 53	10.08 10.11 10.12 10.10 10.08 9.98 9.02 8.41 7.78 7.31 7.12	10.40 10.43 10.51 10.51 10.52 10.60 11.02 11.40 11.95 12.54	253 253 253 243 243 243 243 212 212 212	0.14 0.11 0.20 0.22 0.24 0.24 0.27 0.27 0.22 0.11 0.19

PX-2 0200 EST 4 Apr 52 Depth 54'			Weath Wind Air 1	SE-1
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	10.01 10.10 10.16 10.11 10.08 9.86 9.81 9.22 8.20 7.22 7.13	9.90 10.25 10.43 10.50 10.49 10.62 10.64 10.85 11.55 12.45 12.55	254 2554 265 2653 2545 245 243 243 243	0.18 0.37 0.43 0.45 0.39 0.37 0.43 0.54 0.22 0.26

PX-2 4 Apr		oth 54'	Wind	er 03 SE-1 1.7°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 45 50 45 53	10.06 10.08 10.07 10.06 10.05 10.04 9.35 8.56 7.85 7.31 7.19 7.19	10.03 10.41 10.49 10.51 10.53 10.53 10.90 11.40 11.88 12.36 12.57	255 038 038 038 038 0 263 258 258 258	0.15 0.00 0.11 0.12 0.14 0.09 0.00 0.09 0.11 0.21 0.20 0.16

PX-2 4 Apr 5	PX-2 0500 ES 4 Apr 52 Depth 5		Weath Wind Air 12	0
Depth (ft)	Temp	Sal. (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 50 53	10.03 10.11 10.08 10.07 9.95 9.30 8.03 7.63 7.59 7.57 7.21 7.13	9.72 10.30 10.47 10.50 10.60 10.90 11.64 12.05 12.07 12.08 12.44 12.52	259 268 270 258 268 268 248 248 248 248	0.32 0.29 0.28 0.22 0.19 0.16 0.21 0.23 0.31 0.32

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PX-2 4 Apr	PX-2 0700 EST 4 Apr 52 Depth 58'		Weath Wind Air -	SE-1
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Spe ed (kts)
0 5 10 15 20 25 30 35 40 45 50	10.07 10.10 10.08 10.10 10.10 9.78 8.31 7.76 7.50 7.36 7.34 7.28	9.55 9.63 9.93 10.47 10.50 10.68 11.46 11.95 12.16 12.33 12.35 12.42	248 248 248 248 268 278 278 273 273 273	0.41 0.74 0.58 0.49 0.41 0.39 0.34 0.31 0.31

PX-2 4 Apr	PX-2 0600 EST 4 Apr 52 Depth 54'		Weath Wind Air l	
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	10.07 10.04 10.11 10.08 9.76 9.18 8.11 8.02 7.68 7.41 7.35 7.27	9.63 9.95 10.37 10.49 10.65 10.96 11.61 11.72 12.02 12.25 12.33 12.40	261 261 271 271 271 281 261 261 261 251	0.62 0.64 0.54 0.45 0.39 0.31 0.39 0.41 0.37

PX-2 4 Apr		O EST th 58'	Wind	er 02 E-1 3.3°C
Depth (ft)	(°С) ДешБ	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 15 20 25 27 35 45 55 55 58	10.12 10.17 10.16 10.14 10.11 9.86 8.03 8.89 7.77 7.68 7.45 7.39 7.32 7.32	9.47 9.62 9.70 10.11 10.47 10.64 11.76 11.50 11.95 12.28 12.32 12.49 12.54	270 250 250 250 255 265 265 275 0 0	0.37 0.70 0.67 0.61 0.41 0.41 0.31 0.26 0.09 0.00 0.00

		O EST th 58'	Weather Wind I	3-1
Depth (ft)	Temp	Sal (0/00)	Curr Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 45 50 57 57	10.30 10.08 10.12 10.12 9.99 8.91 7.99 7.83 7.60 7.39 7.23 7.22 7.15	9.42 9.60 9.97 10.02 10.52 11.07 11.71 11.87 12.44 12.36 12.45 12.45	270 250 250 250 250 250 0 0 0 010 015 010	0.29 0.59 0.58 0.51 0.27 0.21 0.00 0.00 0.00 0.09 0.09

		o EST th 58'	Weath Wind Air 1	E-1
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	10.62 10.22 10.14 10.10 9.39 9.18 8.31 8.09 7.81 7.45 7.28 7.25	9.55 10.17 10.27 10.42 10.57 10.94 11.67 11.90 12.25 12.40 12.43	239 009 0 103 113 093 043 042 052 061 071	0.15 0.06 0.00 0.14 0.23 0.21 0.16 0.15 0.20 0.24 0.24

PX-2 4 Apr		oth 58'	Wind	er 02 E-1 2.8°C
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50 57	10.50 10.17 10.13 10.10 10.05 8.83 8.10 8.00 7.66 7.46 7.20 7.17 7.16	9.46 9.51 10.03 10.12 10.51 11.18 11.65 11.78 12.00 12.26 12.45 12.50	263 263 258 259 188 128 108 088 0 029 028 019	0.25 0.24 0.20 0.14 0.09 0.15 0.11 0.11 0.00 0.20 0.20 0.20

PX-2 4 Apr 5		OO EST oth 54°	Weath Wind I Air -	_
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	10.78 10.29 10.29 10.08 9.88 9.34 8.02 7.49 7.46 7.33	9.52 10.12 10.28 10.42 10.62 10.88 11.45 11.73 11.85 12.22 12.23 12.32	0 070 140 089 079 069 060 060 060	0.00 0.45 0.61 0.54 0.43 0.37 0.31 0.29 0.26

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PX-4 3 Apr 52		o est th 61'	Weathe Wind V Air 16	i-2
Depth (ft)	Temp	Sal (0/00)	Curr Dir (OT)	ent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	10.49 10.49 10.29 10.15 9.17 8.54 7.68 7.27 7.19 7.17 7.01 6.89	10.32 10.40 10.43 10.48 10.84 11.22 11.87 12.32 12.44 12.50 12.93 12.90	143 146 147 126 122 117 116 107 111 0	0.54 0.65 0.46 0.77 0.41 0.54 0.35 0.00 0.00

	PX-4 1500 EST 3 Apr 52 Depth 61'			er 00 N-3 1.1°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (^O T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	10.85 10.87 10.51 9.48 8.62 8.29 7.94 7.55 7.13 6.92 6.89 6.87	10.32 10.30 10.41 10.75 11.16 11.40 11.67 12.03 12.52 12.89 12.94 12.96	153 145 130 118 125 123 125 307	0.68 0.41 0.39 0.26 0.34 0.26 0.22

PX-4 3 Apr 5		oth 61'	Wind	er 00 W-2 6.7°C
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (^O T)	rent Speed (kts)
0 5 15 25 25 35 45 55 55 55	10.77 10.71 10.39 9.70 8.97 8.48 7.72 7.51 7.29 7.21 7.13 6.93	10.36 10.36 10.38 10.65 10.99 11.24 11.87 12.07 12.22 12.43 12.58 12.88	137 138 156 155 95 87 119 130 94 104 113	0.61 0.68 0.65 0.35 0.35 0.28 0.25 0.23 0.22 0.15

PX-4 3 Apr	PX-4 160 3 Apr 52 Dep		Weath Wind Air 2	W-3
				rent
Depth (ft)	(OC)	Sal (0/00)	Dir (°T)	Speed (kts)
0 5 10 15 20 25 30 35 40 45	11.04 11.06 10.55 9.92 9.53 8.78 8.38 7.57 7.33 6.89 6.89 6.89	10.25 10.24 10.45 10.65 10.81 11.11 11.39 11.95 12.15 12.96 12.96	128 134 187 182 226 315 232 316 305 296 307 303	0.67 0.52 0.37 0.26 0.22 0.14 0.20 0.12 0.24 0.14 0.21

		O EST th 61'	Weath Wind Air 1	W-2
				rent
Depth (ft)	(°C)	Sal (o/oo)	Dir (°T)	Speed (kts)
0	11.06	10.23 10.23	113 118	0.68
10	11.00	10.25	198	0.76 0.70
15	10.13	10.62	209	0.73
20	9.62	10.75	215	0.71
25	8.86	11.11	235	0.73
30	8.66	11.22	243	0.58
35 40	8.12 7.96	11.52 11.68	293 294	0.37 0.29
45	7.23	12.35	292	0.31
50	6.94	12.82	298	0.37
55	6.91	12.92	303	0.37

P _{X-4} 3 Apr 5	-	O EST th 61'	Weath Wind : Air li	S-1
Depth (ft)	Temp (°C')	Sal (o/oo)	Cur Dir (^O T)	rent Speed (kts)
0 5 10 15 20 25 35 40 50 55 55	10.15 10.22 10.02 9.66 9.05 8.93 8.87 8.41 7.35 7.13 6.96	10.52 10.61 10.69 10.75 10.93 11.00 11.05 11.30 11.75 12.36 12.58 12.85	308 295 293 289 298 293 293 303 304 303 305	0.34 0.43 0.41 0.31 0.29 0.29 0.34 0.37 0.39 0.31 0.22

		oo EST oth 61'	Wind	er 00 W-1 7.8°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	10.05 10.05 10.07 10.05 9.36 8.82 8.74 8.35 7.83 7.37 7.05 6.93	10.59 10.59 10.61 10.63 10.78 11.07 11.15 11.40 11.81 12.22 12.63 12.85	278 277 281 288 288 292 286 286 283 284 0	0.41 0.41 0.39 0.34 0.39 0.47 0.49 0.43 0.26 0.00

PX-4 2000 EST 3 Apr 52 Depth 61'		Weather 00 Wind S-1 Air 12.2 °C		
Depth (ft)	Temp (°C)	Sal (c/oo)	Cur Dir (^O T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 50 55	10.13 10.14 10.14 10.01 9.25 9.19 9.18 8.82 7.31 7.04 6.98	10.66 10.66 10.69 10.92 10.93 10.93 11.20 12.42 12.64 12.75 12.92	330 288 289 289 281 272 288 332 341 330 331	0.19 0.18 0.24 0.23 0.18 0.19 0.22 0.23 0.20 0.19 0.11

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		O EST th 61'	Weather Wind &	3-3
Depth (ft)	Temp (°C)	Sal (o/oo)	Curr Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 35 45 50 55 55	10.21 10.17 10.13 10.12 9.67 9.44 8.87 7.32 7.10 7.03 6.99	10.59 10.59 10.58 10.60 10.74 10.77 11.08 12.29 12.62 12.75 12.82	0 343 333 0 0 0 246 	0.00 0.15 0.18 0.00 0.00 0.00 0.28

PX-4 2300 EST 3 Apr 52 Depth			Weat Wind Air	her 00 S-4
				rent
Depth (ft)	Temp	Sal (0/00)	Dir (°T)	Speed (kts)
0	10.15	10.60	49	
5	10.23	10.56	en es	
10	10.26	10.56		ശയ
15	10.18	10.58		மரு
20	9.88	10.76		
25	9.36	10.99		e-re-
30	8.19	11.60		
35	8.12	11.65		
40	7.88 7.82	11.77 11.83		
45 50	7.65	12.02		
55	7.46	12.22		
	1.10			

PX-4 3 Apr 5		O EST th ól'	Weather Wind Star 12	3-4
			Cur	rent
Depth (ft)	Temp (°C)	Sal (o/oo)	Dir (OT)	Speed (kts)
0	10.10	10.62		
5	10.09	10.62		
10	10.09	10.62		
15	10.07	10.63		
20	10.01	10.66		
25	9.78	10.67		
50	9.39	10.86		
3 5	8.32	11.17		
40	7.61	12.05		
45	7.49	12.22		er ce
50	7.14	12.62		
55	7.10	12.69		

PX-4 0000 EST 4 Apr 52 Depth 61'			Wind	her 00 S-1 11.1 °C
Depth (ft)	Temp (°C)	Sal (c/cc)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 5 5 40 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	10.32 10.32 10.32 10.28 9.78 8.73 8.52 8.19 8.18 7.95 7.52 7.11	10.50 10.50 10.54 10.63 11.25 11.33 11.59 11.61 11.63 12.17 12.62	0 061 088 128 134 125 121 129 134 155 135 141	0.00 0.20 0.28 0.32 0.51 0.41 0.41 0.45 0.13

		EST th 61'	Weathe Wind S Air 1	5-2
Depth (ft)	Temp	Sal (o/oo)	Curi Dir (OT)	Speed (kts)
0 5 10 15 25 25 35 45 55 55 55	10.29 10.29 10.25 9.05 9.01 8.60 8.24 7.98 7.29 7.23 7.13	10.49 10.48 10.49 10.47 10.96 11.01 11.25 11.78 12.42 12.57 12.87	46 59 137 135 131 121 103 67 62 49 50	0.26 0.29 0.56 0.56 0.49 0.47 0.31 0.34 0.26 0.26

PX-4 0305 EST 4 Apr 52 Depth 61'			Weath Wind Air 1	0
Depth (ft)	Temp (°C)	Sal (0/00)	Cur. Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	10.14 10.15 10.15 10.12 9.10 9.07 7.92 7.56 7.31 7.12 7.09 7.07	10.50 10.51 10.51 10.55 10.92 11.03 11.72 12.19 12.52 12.72 12.72 12.77	 55	0.11

PX-4 0205 EST 4 Apr 52 Depth 61'			Weath Wind : Air 1	s - 2
Depth (ft)	Temp (°C)	Sal (co/o)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 45 55 55	10.21 10.23 10.13 9.10 8.60 8.27 7.73 7.19 7.17 7.12 7.07	10.45 10.45 10.45 10.50 10.92 11.18 11.47 11.95 12.55 12.60 12.66 12.76	46 69 132 135 129 121 127 134 0 0	0.22 0.29 0.31 0.41 0.45 0.41 0.37 0.00 0.00

		O EST th 61'	Wind	ner 03 0 12.2°C
Depth (ft)	Temp	Sal (0/00)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50 55	10.12 10.12 10.00 9.78 9.03 8.20 8.00 7.29 7.15 7.12 7.11	10.51 10.52 10.52 10.56 10.75 11.57 11.50 11.54 12.50 12.70 12.72	0 177 181 249 251 0 0 0	0.00 0.12 0.14 0.16 0.18 0.00 0.00 0.00 0.00 0.00

PY-1: 0505 EST 14 Apr 52 Depth 61:			Weath Wind Air l	
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	10.29 10.13 10.07 10.06 10.04 9.66 8.95 7.91 7.67 7.07 7.05 7.05	10.37 10.43 10.51 10.52 10.53 10.68 11.02 11.82 12.07 12.78 12.81	285 277 257 257 257 261 278 277 275 271 265 258	0.32 0.25 0.28 0.30 0.27 0.24 0.14 0.11 0.14 0.21 0.15 0.15

PX-4 4 Apr 5	PX-4 0700 EST 4 Apr 52 Depth 61'			er 03 ESE-1 5.6°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	10.04 10.04 9.91 9.61 9.44 9.33 8.97 8.82 7.54 7.09 7.05	10.51 10.52 10.59 10.72 10.77 10.78 10.82 10.97 11.08 12.17 12.70 12.76	289 287 286 284 284 287 290 290 288 262 205	0.43 0.45 0.45 0.45 0.45 0.43 0.43 0.41 0.37 0.18 0.22

		5 EST th 61'	Weath Wind Air 1	0
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	9.99 9.98 9.90 9.56 9.52 8.54 8.22 8.16 7.37 7.03	10.56 10.58 10.61 10.75 10.78 10.82 11.52 11.56 12.49 12.81 12.82	241 241 243 248 246 263 263 294 298 298 298	0.61 0.65 0.52 0.47 0.34 0.31 0.33 0.32 0.33

PX-4 0800 EST 4 Apr 52 Depth 61'			Wind	her 03 ESE-1 15.6°C
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 45 50 55	10.11 10.04 9.93 9.88 9.39 8.84 8.69 8.12 7.25 7.16 7.09	10.52 10.54 10.59 10.62 10.80 11.04 11.12 11.60 12.50 12.61 12.72	290 281 284 284 282 283 296 294 294 204	0.26 0.37 0.41 0.39 0.31 0.34 0.29 0.26 0.39 0.26 0.26

		oo EST oth 61'	Weath Wind 1 Air 1	ESE-1
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	10.31 10.05 10.04 10.02 9.98 9.96 9.34 8.70 8.38 7.81 7.33 7.12	9.89 10.24 10.53 10.54 10.55 10.56 10.80 11.11 11.34 11.83 12.39 12.67	271 277 270 0 0 0 255 255 266 269 270	0.54 0.06 0.06 0.00 0.00 0.06 0.06 0.12 0.16 0.16

PX-4 4 Apr	PX-4 1100 EST 4 Apr 52 Depth 61'			er 03 SSE-1 5.0°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 45 50 55	10.39 10.25 9.98 9.99 9.95 9.75 9.64 9.57 7.31 7.21 7.13	10.08 10.12 10.55 10.59 10.60 10.72 10.76 10.78 11.07 12.29 12.55 12.65	0 0 148	0.00 0.00 0.16

		oth 61°	Weath Wind Air 1	•
Depth (ft)	Temp	SaJ. (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 25 35 40 50 55	10.35 10.18 10.05 10.01 9.98 9.75 9.37 9.10 8.44 8.11 7.24 7.08	9.98 10.10 10.48 10.56 10.57 10.68 10.84 10.92 11.23 11.55 12.43 12.72	268 281 218 161 118 160 170 177 0 276 295	0.28 0.23 0.09 0.06 0.09 0.16 0.09 0.00 0.12 0.09 0.00

PX-4 4 Apr		1200 EST Depth 61'		er 03 SE-2 6.1°C
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35, 45 50 55	10.50 10.52 10.46 10.00 9.81 9.61 9.40 9.06 8.64 7.21 7.17 7.11	10.25 10.35 10.49 10.56 10.64 10.73 10.85 11.04 11.25 12.56 12.65 12.70	118 120 207 125 117 129 	0.22 0.27 0.52 0.51 0.49 0.49

PX-4 1900 EST 7 Apr 52 Depth 60'		Weath Wind : Air 1	MM-I	
Depth (ft)	Temp	Sal (o/oo)	Cur Lir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 45 50 55	10.60 10.61 10.50 10.32 10.05 9.81 9.70 9.56 9.46 8.93 8.71 8.59	10.67 10.66 10.74 10.88 11.04 11.27 11.38 11.48 11.55 11.91 12.13 12.26	149 155 167 196 245 255 255 293 294 295 292	0.61 0.52 0.29 0.29 0.45 0.45 0.45 0.39 0.37

PX-4 2100 EST 7 Apr 52 Depth 60'			Weather Wind 1 Air 8	W-3
			Cur	rent
Depth (ft)	Temp (oc)	Sal (o/oo)	Dir (^O T)	Speed (kts)
0	9.75	10.67 10.67		~=
5 10	9.76 9.77	10.68		
15 20	9.78 9.80	10.68 10.70		
25	9.80	10.70		
30	9.81 9.81	10.74 10.76		
40	9.75	10.97		
45 50	9.69 9.65	11.00 11.04		
55	9.57	11.10		

PX-4 2000 EST 7 Apr 52 Depth 60'			Weath Wind Air 8	NW-l
Depth (ft)	Temp	Sal (0/00)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 45 50 55	10.46 10.39 10.02 9.84 9.80 9.79 9.78 9.73 9.43 9.41	10.43 10.44 10.58 10.69 10.75 10.76 10.81 10.86 10.93 11.08 11.22	0 ° 237 237 248 247 254 254 240 242	0.00 0.00 0.49 0.51 0.61 0.59 0.61 0.87 0.64 0.64

PX-4 7 Apr		200 EST epth 59'	Wind	her 01 NW-3 7.8°C
	_			rent
Depth (ft)	Temp	Sal (0/00)	Dir (°T)	Speed (kts)
0 5	10.01	10.64	15 322	0.26 0.26
10	10.02	10.66	281	0.43
15	10.05	10.66	282	0.56
50	10.04	10.65	280	0.52
25	10.07 10.10	10.66	282 280	0.54
30 35	10.10	10.70 10.69	281	0.58 0.59
40	10.02	10.71	280	0.61
45	9.81	10.82	280	0.59
50	9.78	10.83	278	0.58
55	9.67	10.98	279	0.58

PX-4 2300 EST 7 Apr 52 Depth 60'			Weathe Wind 1 Air 7	NW-3
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50 55	9.43 9.43 9.43 9.78 9.89 9.96 10.03 10.05 9.78 9.68	10.37 10.37 10.60 10.62 10.67 10.65 10.65 10.67 10.83 10.98	289 289 287 282 289 309 281 289 268	0.51 0.58 0.51 0.49 0.29 0.29 0.29 0.31 0.29

	PX-4 0100 EST 8 Apr 52 Depth 60'		Weathe Wind - Air -	
Depth (ft)	Temp (°C)	Sal (0/00)	Curr Dir (°T)	ent Speed (kts)
0 5 10 15 20 25 30 35 45 55 55 58	9.05 9.03 9.06 9.07 9.37 9.78 10.04 10.07 9.84 9.66 9.40 9.09	9.97 9.98 9.97 9.97 10.10 10.44 10.59 10.64 10.70 10.71 10.92 11.07		

FX-4 7 Apr 52	0005 EST Depth 60	Weather Ol Wind NW-3 Air 7.2°C

Depth (ft)	Temp	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40	9.29 9.29 9.31 9.47 10.04 10.10 10.01 9.88 9.77	10.17 10.18 10.20 10.30 10.58 10.62 10.69 10.75 10.76	201 265 264 302 296 293 280	0.29 0.41 0.41 0.31 0.20 0.18 0.19
45 50 55	9.68 9.60 9.64	10.75 10.78 10.87	259 260 0	0.15 0.15 0.00

Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0	9.15	10.02		
5	9.52	10.24		
10	9.86	10.46		
1 5	10.01	10.53		
20	9.97	10.55		
25	9.94	10.56		
30	9.94	10.57		
35	9.96	10.64		
40	9.88	10.70		
45	9.40	11.15		
50	9.19	11.33		
55	9.09	11.40		

0200 EST Depth 60° Weather -Wind -Air -

FX-4 8 Apr 52

PX-4 8 Apr 5		EST th 60'	Weathe Wind Air -	_
			Cur	rent
Depth (ft)	Temp (OC)	Sal (0/00)	Dir (°T)	Speed (kts)
0	9.80	10.50		
5	9.86	10.50		
10	9.91	10.52		
15	10.01	10.53		
20	9.96	10.53		
25	10.05	10.58		
30	10.00	10.69		
35	9.70	10.92		
40	9.58	11.00		
45	9.48	11.12		
50	9.40	11.21		
55	9.29	11.30		
57	9.24	11.31		

PX-4 0500 EST 8 Apr 52 Depth 60'		Weathe Wind - Air -		
			Cur	rent
Depth (ft)	(°C)	Sal (c/cc)	Dir (OT)	Speed (kts)
0	10.05	10.42		66
5	10.09	10.46		-0
10	10.07	10.51 10.54		
15 20	10.05 10.05	10.56		
25	10.03	10.62		5 68
30	9.82	10.87		e3 ta
35	9.56	11.06		
40	9.53	11.13		
45	9.52	11.14		
50	9.50	11.16		
55	9.36	11.27		

PX-4 8 Apr 5		o EST th 60'	Weath Wind Air -	
Depth (ft)	Temp (oC)	Sal (o/oc)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50 55	99 98 98 98 98 98 99 99 99 99 99 99 99 9	10.52 10.53 10.53 10.53 10.64 10.73 10.75 11.00 11.01 11.08 11.12		

PX-4 8 Apr	0600 EST 52 Depth 60'		Weat Wind Air	-
Depth (ft)	Temp (°C)	S <u>el</u> (0/00)	Cur. Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50 55	10.23 10.25 10.25 10.25 10.21 9.98 9.70 9.46 9.31 9.27 9.21 9.15	10.27 10.29 10.29 10.34 10.60 10.90 11.15 11.26 11.30		

		5 EST th 60'	Weath Wind Wind Air -	
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (CT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50 55	9.13 9.01 9.37 9.62 9.61 9.46 9.51 9.44 9.21 9.15 9.09	10.08 10.05 10.25 10.35 10.40 10.38 10.77 11.07 11.22 11.29 11.43 11.44 11.48	142 201 204 177 176 155 155 155 158 168	0.41 0.29 0.41 0.31 0.22 0.20 0.16 0.14 0.12 0.12 0.14

PX-4 0915 EST 8 Apr 52 Depth 55'		Weath Wind Air -		
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50 55	9.50 9.46 9.64 9.66 9.66 9.66 9.66 9.62 9.62 9.62	10.33 10.35 10.40 10.47 10.50 10.96 10.99 11.02 11.09 11.22 11.31	204 235 259 259 266 274 269 274 280 276	0.82 0.67 0.71 0.71 0.67 0.56 0.51 0.65 0.70

PX-4 0807 E 8 Apr 52 Depth			Weathe Wind V Air -	
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 55 57	9.36 9.29 9.52 9.43 9.41 9.40 9.48 9.51 9.44 9.30 9.06	10.17 10.20 10.20 10.47 10.47 10.49 10.76 10.98 11.13 11.30 11.48	167 171 216 214 213 274 275 272 271 271 266	0.22 0.18 0.31 0.29 0.22 0.26 0.29 0.41 0.45 0.45

		O EST th 55'	Weather Wind Air -	
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 55 55 55	9.66 9.65 9.68 9.68 9.84 9.74 9.69 9.68	10.35 10.35 10.36 10.47 10.70 10.75 10.80 10.85 10.92 10.93 10.99	255 280 280 307 323 317 323 311 302 291 313	0.70 0.68 0.68 0.64 0.56 0.47 0.52 0.56 0.59 0.64 0.62

PX-4 1113 E 8 Apr 52 Depth		-	Weat Wind Air	
Depth	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 58	9.54 9.53 9.56 10.03 10.05 9.99 9.88 9.89 9.81 9.80 9.79	10.16 10.16 10.22 10.44 10.50 10.53 10.56 10.67 10.72 10.74 10.76 10.77	214 284 292 298 305 303 303 297 292 291 285	0.62 0.59 0.62 0.54 0.52 0.39 0.41 0.64 0.64

		OU EST oth 55'	Weath Wind 1 Air 1	
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (^C T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50 55	9.67 9.82 9.88	9.59 9.59 10.35 10.45 10.50 10.59 10.61 10.67 10.71 10.80 10.97 11.08	271 268 267 266 297 347 355 0 0 0 117 117	0.58 0.56 0.45 0.22 0.12 0.15 0.16 0.00 0.00 0.12 0.12

PX-4 8 Apr		o8 EST oth 55'		her 02 NW-1
Depth (ft)	Temp	Sel (5/05)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50 55 58	9.46 9.42 9.52 9.94 10.00 9.99 9.88 9.85 9.85 9.84 9.82	10.13 10.08 10.20 10.42 10.48 10.50 10.52 10.60 10.68 10.69 10.69 10.69	206 275 305 321 331 324 322 320 309 297 296 294	0.58 0.51 0.45 0.29 0.37 0.37 0.41 0.43 0.43

PX-4 8 Apr 5	PX-4 140 8 Apr 52 Dep		Wind	e: 01 E-2 1.7°C
Depth (ft)	Temp	Sal (0/00)	Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	9.44 9.48 9.91 9.99 9.85 9.64 9.46	9.82 9.86 9.96 10.32 10.45 10.50 10.58 10.69 10.78 10.85 11.01	243	0.12

PX-4 8 Apr		00 EST pth 55	Wind	her Ol ESE-1 12.2°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur. Dir (OT)	Speed (kts)
0 5 10 15 20 25 30 35 40 45 50 55	9.52 10.02 10.24 10.15 10.10 10.09 10.05 9.94 9.88 9.60 9.56	9.82 10.14 10.41 10.43 10.42 10.44 10.45 10.52 10.58 10.73 10.97	0 97	0.00

		5 EST th 55'	Weath Wind I	NE-1
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50 55	10.31 10.24 10.06 10.05 9.95 9.89 9.89 9.85 9.64 9.58 9.48	10.47 10.55 10.65 10.66 10.75 10.76 10.77 10.73 10.96 11.05 11.11	126 117 118 116 117 116 118 112 118 104 95 93	0.41 0.58 0.65 0.62 0.62 0.62 0.62 0.62 0.65 0.65

PX-4 8 Apr	1600 EST 2 Depth 55'		Weath Wind Air l	
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	9.71 9.87 9.96 10.02 10.04 10.05 10.00 9.96 9.85 9.67 9.62	10.02 10.30 10.32 10.38 10.41 10.44 10.53 10.53 10.65 10.80 10.95	125 6 115 133 127 131 132 129 131 132 123 125	0.47 0.54 0.58 0.62 0.67 0.67 0.68 0.68 0.71 0.73

		40 EST pth 65'	Winā	her 03 NE-1 13.9°C
Depth (ft)	Temp (℃)	Sal (0/00)	Cu Dir (OT)	rrent Speed (kts)
0 5 15 25 25 25 35 45 55 55 55 55	10.37 10.38 10.37 10.35 10.27 10.25 9.70 9.60 9.59 9.55 9.46	10.32 10.33 10.35 10.38 10.44 10.45 10.78 11.00 11.01 11.06 11.17	55 54 56 53 150 143 138 139 137 140 141 112 354	0.47 0.45 0.43 0.39 0.51 0.39 0.37 0.34 0.34 0.34

PX-8 1400 ES 4 Apr 52 Depth 5			Weather Wind & Air 16	Œ-3
Depth (ft)	(°C)	Sal (o/oo)	Curr Dir (OT)	Speed (kts)
0 5 10 15 20 25 30 35 40 45 49	11.80 11.77 11.60 10.98 10.32 9.15 8.62 7.76 7.25 7.22 7.22	9.75 9.77 9.78 10.07 10.44 11.14 11.47 12.12 12.50 12.50	176 177 178 176 178 176 176 178 178 174	0.36 0.42 0.55 0.50 0.42 0.36 0.46 0.55 0.50 0.42

		o EST th 50'	Weather Wind & Air 1	SE-3
Depth (ft)	Temp (°C)	Sal (o/oo)	Curi Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 49	11.89 11.84 11.05 10.61 10.48 9.68 9.32 8.44 7.58 7.50 7.47	9.75 9.76 9.97 10.24 10.33 10.85 11.02 11.67 12.24 12.31	0 0 0 191 192 193 161 163 163	0.00 0.00 0.00 0.36 0.36 0.46 0.42 0.59 0.51 0.39

PX-8 4 Apr 5		OO EST pth 50'	Weath Wind : Air l	SE-3
Depth (ft)	Temp	Sal (o/co)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45	11.91 11.90 11.55 10.83 10.46 9.73 9.13 8.33 7.45 7.38 7.36	9.79 9.79 9.85 10.15 10.78 11.20 11.70 12.30 12.37 12.40	163 163 176 180 193 193 174 178 174 163	0.18 0.39 0.41 0.43 0.39 0.56 0.56 0.65

PX-8 4 Apr	PX-8 1700 EST 4 Apr 52 Depth 50'			her 03 SE-3 15.6°C
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45	11.95 11.82 11.71 11.66 10.62 9.89 9.00 8.41 7.63 7.52 7.51	9.75 9.77 9.80 9.81 10.21 10.72 11.23 11.66 12.19 12.30	323 343 323 0 175 179 178 178 178	0.26 0.23 0.19 0.00 0.22 0.31 0.43 0.37 0.32

		EST th 50°	Weather 03 Wind SE-3 Air 16.1°C	
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45	11.77 11.70 11.66 11.05 10.54 9.45 8.62 8.16 7.77 7.68 7.64	9.77 9.79 9.81 10.07 10.25 10.93 11.46 11.89 12.15 12.20 12.22	323 338 358 345 0 163 151 153 135 0	0.41 0.45 0.39 0.29 0.22 0.22 0.22 0.26 0.00

		6 EST th 51'	Weathe Wind A Air 1	SE-3
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (연간)	rent Speed (kts)
0 5 10 15 0 25 0 35 0 45 0 45 0	11.50 11.47 10.68 10.12 9.87 9.48 8.84 8.24 7.48 7.38 7.39	9.95 9.98 10.39 10.62 10.80 10.97 11.43 12.21 12.30 12.30	318 318 319 319 324 0 0	0.58 0.51 0.29 0.41 0.29 0.20 0.00 0.00 0.00

PX-8 4 Apr 5		O EST th 51	Weath Wind Air 1	SE-3
Depth (ft)	Temp	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45	11.64 11.59 11.07 10.52 9.95 9.32 8.58 8.06 7.47 7.34 7.34	9.87 9.90 10.12 10.37 10.77 11.18 11.63 11.98 12.33 12.40 12.40	321 321 319 318 317 319 0 0 0	0.59 0.51 0.39 0.20 0.14 0.09 0.00 0.00 0.00

		9 EST oth 51'	Wind	er 02 SE-3 4.4°C
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 45 49	11.32 11.26 10.19 9.54 8.71 8.66 8.12 8.02 7.63 7.45 7.42	10.07 10.10 10.57 11.33 11.47 11.57 11.90 12.02 12.23 12.35 12.37	320 319 317 317 317 0 0 0 308 314 314	0.65 0.59 0.37 0.41 0.29 0.00 0.00 0.00 0.15 0.19

PX-8 4 Apr 5	220 2 De j	Wind	ner 03 SE-3 13.9°C	
Depth (ft)	Temp	Sal (0/00)	Cur Dir (°T)	Speed (kts)
0 5 10 15 20 25 30 35 40 48 49	11.28 11.07 10.67 8.97 8.63 8.61 8.02 7.74 7.38 7.35	10.29 10.30 10.50 11.43 11.55 11.60 11.92 12.22 12.39 12.41	322 326 327 326 0 0 0 516 315 315	0.52 0.59 0.58 0.22 0.00 0.00 0.00 0.09 0.09

		O EST th 51'	Weath Wind Air 1	SSE-4
Depth (ft)	Temp	Sal (o/co)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45	10.61 10.58 10.51 9.61 9.29 9.27 8.94 8.53 7.72 7.53 7.44	10.48 10.51 10.53 10.95 11.08 11.13 11.37 11.64 12.15 12.30 12.37	068 072 068 113 114 147 148 156 160 161 162	0.09 0.20 0.24 0.28 0.20 0.24 0.31 0.29 0.39

PX-8 4 Apr 5		OO EST pth 51'		her 03 SE-3
			Cure	rent
Depth (ft)	Temp (°C)	Sal (0/00)	Dir (oT)	Speed (kts)
0	11.19	10.32	316	0.29
5	10.67	10.55	326	0.29
.10	10.61	10.57	336	0.29
15	10.02	10.82	334	0.29
20	9.15	11.22	141	0.12
25	8.84	11.42	153	0.14
30	8.69	11.57	143	0.20
35	8.03	11.78	141	0.14
40 5-	7.64	12.27	140	0.09
45	7.38	12.39	140	0.00
48	- · ·		143	0.09
50	7.38	12.40		40

PX-8 0100 EST 5 Apr 52 Depth 50'			Weath Wind Air 1	SE-4
Depth (ft)	Temp (°C)	Sal (c/cc)	Cur Dir (OT)	rent Speed (kts;
0 5 10 15 20 25 30 35 40 45 49	10.57 10.58 10.59 10.52 9.84 9.27 9.12 8.93 8.59 8.06 7.51	10.38 10.39 10.40 10.43 10.80 11.12 11.21 11.34 11.56 11.95 12.32	117 117 120 123 139 153 150 163 150 148	0.29 0.29 0.43 0.22 0.29 0.43 0.47 0.29

		C EST th 52	Weath Wind Air 1	SE-3
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 49	10.89 10.89 10.88 10.54 9.94 9.49 9.32 9.10 8.61 7.93 7.65	10.30 10.30 10.48 10.81 11.00 11.09 11.22 11.56 12.02	111 128 130 148 145 143 153 161 161	0.51 0.58 0.51 0.49 0.45 0.54 0.56 0.41 0.29

PX-8 0400 EST 5 Apr 52 Depth 50'		Weath Wind Air l	SE-3	
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 49	11.11 11.10 11.07 10.84 10.56 10.20 9.72 9.26 8.47 7.83 7.79	10.15 10.15 10.19 10.44 10.52 10.70 10.84 11.10 11.63 12.09 12.13	165 120 163 193 173 141 145 139 141 141	0.37 0.31 0.41 0.22 0.31 0.29 0.51 0.56 0.56 0.41 0.39

•		O EST th 50'	Weath Wind Air 1	SE-3
Depth (ft)	Temp	Sal (o/oo)	Cur. Dir. (^O T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 49	11.02 11.00 11.02 11.02 10.85 10.29 9.82 9.13 8.41 7.63 7.59	10.22 10.22 10.23 10.41 10.66 10.85 11.16 11.67 12.24 12.25	083 148 173 168 168 173 130 138 143 143	0.18 0.22 0.31 0.37 0.31 0.29 0.62 0.84 0.66 0.72

PX-8 0500 E 5 Apr 52 Depth		00 EST oth 50'	Weathe Wind & Air 12	3E-4
Depth (ft)	Temp	Sal (o/oo)	Curr Dir (°T)	Speed (kts)
0 5 10 15 20 25 30 35 40 45	11.06 11.05 10.94 10.74 10.08 9.89 9.61 9.35 8.37 7.91 7.85	10.12 10.17 10.33 10.49 10.73 10.85 10.97 11.12 11.75 12.04	303 293 133 233 208 188 138 098 193 163 153	0.26 0.31 0.41 0.37 0.41 0.62 0.50 0.50 0.75 0.59 0.46

PX-8 5 Apr 5	PX-8 0600 EST 5 Apr 52 Depth 50'		Weath Wind Air l	
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 20 25 25 30 35 45 49	10.87 10.75 10.67 10.58 10.51 10.03 9.82 9.58 8.58 8.03 7.95	10.31 10.35 10.42 10.48 10.75 10.85 10.95 11.52 11.96 12.02	323 338 345 328 328 166 176 178 178 165 353	0.51 0.59 0.37 0.39 0.22 0.22 0.22 0.45 0.31 0.22

PX-8 5 Apr		O EST th 51'	Weath Wind 1 Air 1	ese-1
			Cur	rent
Depth (ft)	Temp (°C)	Sal (o/oo)	Dir (OT)	Speed (kts)
0 5 10 15 20 25 30 35 40 45 48 49	11.05 10.62 10.46 10.11 9.18 8.98 8.71 8.57 8.01	10.46 10.57 10.64 10.80 11.22 11.39 11.55 11.65	328 324 324 328 323 325 0 0 333 328 327	0.43 0.41 0.31 0.29 0.24 0.15 0.00 0.00 0.09 0.09

PX-8 5 Apr 5		OO EST pth 51'	Wind	er 61 ESE-1 5.0°C
Depth (ft)	(°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 49	10.62 10.61 10.59 10.39 10.22 9.84 9.41 8.87 8.26 8.14 7.84	10.44 10.45 10.58 10.71 10.87 11.13 11.48 11.81 11.87	331 338 526 327 323 325 193 182 157	0.59 0.45 0.56 0.43 0.34 0.18 0.26 0.29 0.29

PX-8 5 Apr		oo EST pth 51'	Wind	he: 67 SSE-1 14.4°C
Depth (ft)	Temp	Sal (c/co)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 49	10.86 10.38 10.18 10.14 10.07 9.14 8.31 8.10 7.78 7.67	10.53 10.75 10.80 10.81 10.86 11.34 11.75 11.95 12.12 12.19	343 342 335 331 347 333 335 332 332 333 332	0.51 0.49 0.41 0.28 0.21 0.11 0.09 0.14 0.12

		O EST th 51	Weathe Wind S Air 15	SSE-2
Depth (ft)	Temp	Sal (o/oo)	Curr Dir (^O T)	ent Speed (kts)
0 5 10 15 20 25 30 35 40 45 49	11.15 10.23 10.21 10.14 9.94 9.69 8.98 8.33 7.76 7.63 7.60	10.50 10.75 10.78 10.80 10.92 11.02 11.38 11.75 12.10 12.23 12.25	331 335 331 328 331 331 331 0 334 336 0	0.65 0.58 0.52 0.56 0.41 0.27 0.20 0.00 0.09 0.09

		O EST th 51'	Weathe Wind & Air l	SSE-4
Depth (ft)	Temp (°C)	Sal (o/oo)	Cum Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 49	10.38 10.30 10.15 9.86 9.65 9.35 8.58 8.22 7.99 7.66	10.85 10.87 10.95 11.05 11.24 11.67 11.84 12.05 12.20	335 335 335 335 0 329 160 0 153	0.67 0.41 0.39 0.26 0.00 0.12 0.20 0.00 0.09 0.09

PX-8 11.00 EST 5 Apr 52 Depth 51*			Weather Wind & Air 10	SSE-3
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45	10.60 10.51 10.11 9.83 9.64 9.45 8.45 8.20 7.97 7.76 7.73	10.75 10.78 10.82 10.95 11.03 11.16 11.70 11.84 12.02 12.13 12.16	333 334 332 333 330 330 329 325 325 328 327	0.74 0.65 0.41 0.43 0.31 0.28 0.15 0.11 0.06 0.12

PX-8 1300 EST 5 Apr 52 Depth 50			Weath Wind Air 1	SE-6
			Cur	rent
Depth	Temp	Sal	Dir	Speed
(ft)	(∞)	(0/00)	(ct)	(kts)
0	10.37	10.84	338	0.39
5	10.31	10.86	343	0.28
10	10.31	10.86	338	0.20
15	10.21	10.88	338	0.12
20	10.16	10.87	325	0.11
25	9•59	11.06	218	0.12
30	9.45	11.13	1.61	0.28
35	8.70	11.52	153	0.23
40	8.59	11.60	13.1	0.21
45	8.12	11.86	125	0.22
140	7.67	12.18	С	0.00

PX-12 1400 EST 4 Apr 52 Depth 55'				er 03 ESE-2 6.7°C
Depth (ft)	Temp (OJ)	Sal (o/co)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45	12.21 12.19 11.06 10.57 10.43 10.04 8.62 8.10 7.86 7.75	9.39 9.89 10.22 10.28 10.55 11.52 11.91 12.16 12.23	124 123 130 122 113 141 113 119 124 132	0.30 0.38 0.38 0.39 0.39 0.34 0.30 0.41

PX-12 1604 EST 4 Apr 52 Depth 55			Wind	er 03 SSE-2 8.3°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	12.11 11.87 11.54 11.32 9.96 9.31 8.89 7.69 7.42 7.41 7.40	9.42 9.53 9.66 9.78 10.60 11.47 12.47 12.49 12.49	114 118 115 115 103 107 110 0	0.35 0.41 0.46 0.41 0.65 0.41 0.35 0.00 0.00

	PX-12 1507 EST 4 Apr 52 Depth 55		Weath Wind Air =	
Depth (ft)	Temp (^C C)	Sal (0/00)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	12.11 11.89 11.65 10.95 10.91 10.49 9.46 8.82 7.69 7.36 7.35	9.41 9.48 9.59 9.96 9.98 10.26 10.90 11.42 12.26 12.27 12.50 12.50	93 94 91 91 90 91 95 89 115 120 110	0.53 0.53 0.61 0.61 0.61 0.86 0.86 0.59 0.65 0.59

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PX-12 4 Apr	•		Wind	her 03 SE-2 17.8°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 47	12.03 11.89 11.75 11.28 9.50 9.01 8.38 7.59 7.43 7.43	9.44 9.52 9.57 9.85 10.81 11.23 11.77 12.37 12.45 12.49	277 203 200 203 105 113 113 113 111	0.12 0.11 0.19 0.14 0.30 0.70 0.58 0.29 0.26 0.26 0.00

		OO EST oth 50'	Wind	er 03 SE-3 0.0°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	12.27 12.11 10.95 10.04 9.44 8.62 8.20 7.83 7.71 7.61 7.55	9.43 9.48 10.02 10.45 10.87 11.50 11.90 12.11 12.21 12.29 12.35	298 296 296 295 0 1+5 208 296 	0.45 0.59 0.29 0.22 0.00 0.14 0.12 0.00 0.12

		00 EST oth 53'	Wind	er 03 SE-3 6.1°C
Depth (ft)	Temp (°C)	Sal (°/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 25 25 30 35 40 45 50	11.84 11.84 11.84 11.84 9.50 8.09 7.79 7.60 7.46 7.46 7.37	9.65 9.65 9.65 9.65 10.97 12.00 12.36 12.45 12.49	299 298 288 288 286 299 286 267 285 286 286	0.68 0.68 0.73 0.61 0.53 0.19 0.09 0.12 0.11 0.09

PX-12 4 Apr 5	PX-12 1900 EST 4 Apr 52 Depth 56'		Wind	er 03 SE-2 6.1°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45	12.18 12.17 12.09 11.40 9.63 8.96 8.01 7.67 7.49 7.41	9.55 9.55 9.58 9.84 10.75 11.25 11.93 12.28 12.36 12.40	282 270 291 283 0 281 283 289 292 293	0.97 0.92 0.83 0.45 0.16 0.00 0.12 0.14 0.19 0.19

		oo EST oth 53'	Wind	er 03 SE-3 4.4°C
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45	12.02 12.02 12.01 11.54 8.48 8.10 8.01 7.61 7.57 7.51 7.26	9.68 9.66 9.69 9.90 11.75 12.00 12.17 12.39 12.51 12.55 12.73	284 283 283 284 293 262 281 291 291 292	0.86 0.73 0.73 0.73 0.30 0.14 0.12 0.09 0.09

PX-12 2200 EST 4 Apr 52 Depth 53'			Wind	er 03 S-3 7.8°C
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 50	12.06 12.06 12.06 11.93 9.09 8.07 7.87 7.57 7.45 7.37 7.30	9.66 9.66 9.69 10.88 12.02 12.12 12.40 12.50 12.61 12.64	287 288 287 288 288 217 283 0 0	0.68 0.61 0.61 0.30 0.15 0.09 0.00 0.00

		O EST th 52'	Weath Wind Air l	SSW-2
Depth (ft)	Temp	Sel (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45 49	12.01 12.01 11.96 11.74 11.41 9.94 8.79 8.78 7.72 7.46	9.63 9.62 9.65 9.77 9.94 10.72 11.40 11.69 12.25 12.41	293 288 290 0 126 131 109 109 108 110	0.46 0.46 0.29 0.00 0.58 1.05 1.07 1.05 1.05

		00 EST pth 53'	Weath Wind Air l	-
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45	12.07 12.06 12.05 11.97 10.10 9.57 8.22 7.70 7.48 7.47 7.45	9.64 9.64 9.65 10.63 11.02 11.83 12.32 12.48 12.51 12.52	273 283 273 283 0 193 118 112 111 109	0.23 0.21 0.24 0.23 0.00 0.18 0.21 0.23 0.27 0.24

PX-12 5 Apr		o4 EST pth 52	Wind	her 03 SSW-2 21.1°C
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 15 20 25 25 35 45 50	11.96 11.95 11.90 11.65 10.83 10.25 10.00 8.28 8.06 7.59 7.55	9.67 9.68 9.70 9.80 10.22 10.51 10.67 11.61 11.98 12.35 12.40	109 113 115 122 119 112 109 111 111	0.18 0.26 0.37 0.47 0.49 0.43 0.39 0.26 0.36 0.33

PX-12 5 Apr	PX-12 0205 5 Apr 52 Dept		Weath Wind Air 1	SSW-2
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 55 40 43	11.71 11.73 11.69 11.14 10.90 10.71 10.25 9.76 7.86 7.67	9.70 9.68 9.73 10.00 10.13 10.24 10.49 10.83 11.96 12.29	85 84 94 105 103 122 124	0.43 0.34 0.41 0.49 0.45 0.54 0.41

PX-12 5 Apr	PX-12 0405 5 Apr 52 Dept		Weath Wind Air 1	
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 36	11.81 11.79 11.76 11.56 11.10 10.89 9.40 8.97	9.66 9.66 9.71 9.71 10.02 10.16 10.85 11.32	136 140 141 142 136 147 156 156	0.39 0.22 0.31 0.41 0.37 0.31 0.26 0.22

PX-12 5 Apr	PX-12 030 5 Apr 52 Dep		Wind	er 03 SSW-2 6.1°C
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 38	11.67 11.66 11.58 11.06 10.85 10.89 9.11 8.26	9.76 9.76 9.77 10.00 10.16 10.16 11.30 11.77	120 125 124 121 123 125 292 293	0.59 0.52 0.22 0.31 0.26 0.26 0.26

PX-12 0505 EST 5 Apr 52 Depth 42'		Wind	er 62 SSW-2 3.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 42	11.77 11.75 11.75 11.75 11.73 11.54 11.34 0,46 7.73 7.63	9.72 9.73 9.73 9.74 9.76 9.87 9.98 11.58 12.15 12.25	333	0.26

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PX-12 5 Apr 5	PX-12 0604 EST 5 Apr 52 Depth 42'			er 62 SE-3 4.4°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 39	12.13 12.07 11.99 11.91 11.77 11.44 10.55 8.64 7.98	9.49 9.54 9.58 9.61 9.67 9.72 10.30 11.55 11.94	312 306 303 321 0 322 0 139	0.50 0.36 0.43 0.22 0.00 0.26 0.00 0.22

PX-12 5 Apr		O EST th 43'	Weath Wind Air 1	
Depth	Temp (°C)	Sal (o/oo)	Cur Dir (^O T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40 45	11.95 11.96 11.95 11.79 11.26 10.46 8.76 8.31 8.27	9.59 9.57 9.56 9.57 9.70 9.95 10.19 11.47 11.70	296 294 296 291 295 307 305 0	0.43 0.45 0.45 0.43 0.43 0.29 0.22 0.00

PX-12 5 Apr 5		th 42°	Wind	er 02 SE-1 6.1°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40	12.02 12.03 11.73 11.46 11.34 11.12 10.31 8.26 7.97	9.55 9.57 9.73 9.83 9.87 9.95 10.54 11.52 11.95	300 286 291 297 294 297 0 0	1.53 1.75 0.68 0.61 0.53 0.26 0.00 0.00

PX-12 5 Apr		ooo EST epth 43'	Wind	her 81 S-1 17.8°C
Depth (ft)	Temp (°C)	Sal (c/cc)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 35 40	11.87 11.84 11.82 11.65 10.90 9.10 8.35 7.80	9.70 9.70 9.71 9.74 9.85 10.22 11.05 11.60 12.08	311 304 295 278 303 308 0 307 300	0.45 0.51 0.45 0.67 0.54 0.22 0.00 0.18 0.18

		EST th 43'	Weather Wind S Air 19	3- 2
Depth (ft)	Temp	Sal (º/oo)	Dir (^O T)	Speed (kts)
0 5 10 15 20 25 30 35 40	11.85 11.84 11.81 11.80 11.74 11.56 8.97 7.82 7.68	9.73 9.73 9.75 9.75 9.79 10.13 11.13 12.08 12.20	309 299 297 292 302 302 293 0	0.58 0.41 0.43 0.56 0.45 0.39 0.31 0.00

PX-12 1200 EST 5 Apr 52 Depth 43'			Weather Wind & Air 2	3– 3
Depth (ft)	Temp (°C)	Sal (o/oo)	Curi Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40	12.07 12.08 12.08 12.06 11.96 9.96 8.57 8.35 7.98	9.83 9.83 9.83 9.82 9.85 10.82 11.40 11.70 11.95	288 283 295 279 278 278 278 281	0.39 0.41 0.41 0.37 0.43 0.29 0.26 0.18 0.00

PX-12 5 Apr 52	PX-12 1100 5 Apr 52 Dep		Weath Wind Air 2	
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (^C T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40	11.90 11.90 11.84 11.53 10.54 9.97 8.36 7.93 7.86	9.83 9.83 9.81 9.89 10.38 10.67 11.60 11.97 12.08	302 302 312 313 248 261 233	0.68 0.51 0.59 0.56 0.37 0.29 0.34

		8 EST th 40'	Wind	er 02 S-3 2.2°C
Depth (ft)	Temp	Sal. (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35 40	12.77 12.62 12.07 11.91 11.46 10.57 9.66 8.93 8.52	9.68 9.70 9.84 9.88 9.93 10.35 10.77 11.22 11.48		

PX-16 5 Apr	-	EST th 35'	Weath Wind Wind Air 18	M-1t
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 34	12.49 12.48 12.41 12.34 12.24 11.80 10.77 9.74	8.65 8.65 8.65 8.67 8.75 8.77 9.25	146 156 158 158 173 151 133	0.70 0.70 0.58 0.41 0.37 0.24 0.19

FX-16 1.700 EST 5 Apr 52 Depth 34'			Weath Wind Air 1	
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 31	12.65 12.65 12.65 12.67 12.65 12.82 10.74 10.55	8.63 8.63 8.64 8.64 8.80 9.25 9.42	128 133 164 171 190 208 280	0.39 0.29 0.45 0.49 0.26 0.21

PX-16 5 Apr	1600 52 Depi	Weath Wind Wind Mir 19	N-1 9	
Depth (ft)	Temp (°C)	Sal (0/00)	Curi Dir (OT)	Speed (kts)
0 5 10 15 20 25 26 27	12.59 12.59 12.59 12.59 12.59 12.32 12.12	8.60 8.60 8.61 8.60 8.62 8.75	118 123 128 136 181 181	0.29 0.37 0.70 0.62 0.47

PX-16 5 Apr		SOO EST pth 34'	Wind	her 02 NW-3 18.3°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 33	12.69 12.69 12.69 12.69 12.67 12.68 11.51 10.62	8.60 8.60 8.60 8.61 8.67 8.96 9.42	118 148 133 171 0 345 005 003	0.26 0.28 0.16 0.14 0.00 0.26 0.31 0.29

PX-16 5 Apr 5	PX-16 1900 EST 5 Apr 52 Depth 35'		-	
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 33	12.78 12.77 12.77 12.75 12.76 12.26 11.17 9.03	8.59 8.59 8.61 8.64 8.72 8.82 9.25 11.06	0 0 0 338 338 338 338	0.00 0.00 0.00 0.09 0.14 0.22 0.28

PX-16 5 Apr	PX-16 2100 E 5 Apr 52 Depth		Weather 03 Wind NW-3 Air 13.3°C	
Depth (ft)	Temp (9C)	Sal (0/00)	Cur. Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 34	8.91 8.88 8.77 8.59 7.70		0 0 340 340 343 340 340 340	0.00 0.00 0.22 0.51 0.72 0.81 0.81

PX-16 2000 5 Apr 52 Depth		0 EST th 34'	Weath Wind 1	NW-2
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 33			340 340 336 343 340 338 335	0.09 0.09 0.16 0.24 0.52 0.67 0.71

				Weather 03 Wind NW-3 Air 12.2°C	
Depth (ft)	Temp (°C)	Sal (0/00)	Curr Dir (°T)	rent Speed (kts)	
0 5 10 15 20 25 30 34	8.55 8.55 8.56 8.47 8.37 7.64		313 0 338 338 339 337 339 343 344	0.12 0.00 0.20 0.24 0.42 0.66 0.50 0.29	

		o EST th 35'	Weathe Wind V Air 12	usw-4
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 33	8.11 8.12 8.22 8.09 7.64		118 98 93 308 338 343 343 343	0.11 0.20 0.09 0.20 0.28 0.69 0.66 0.55

		O EST th 35'	Weathe Wind W Air 10	VSW-2
Depth (ft)	Temp	Sal (o/oo)	Curi Dir (OT)	cent Speed (kts)
0 5 10 15 20 25 30 33	9.28 9.33 9.28 9.25 9.11		178 222 180 26 60 88 0	0.35 0.24 0.16 0.15 0.23 0.20 0.00

		O EST th 35'	Wind	er 00 WSW-3 2.8°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (^O T)	rent Speed (kts)
0 5 10 15 20 25 30 33	8.61 8.58 8.70 8.65 8.14		107 112 112 0 317 320 323	0.20 0.22 0.15 0.00 0.20 0.50 0.29

PX-16 6 Apr	02 52 De	Wind	her 00 WsW-2 10.0 °C	
Depth (ft)	Temp (°C)	S al (o/oo)	Cur Dir (^O T)	rent Speed (kts)
0 5 10 15 20 25 30 31	9.77 9.77 9.79 9.68 9.55		156 149 148 118 118 28 108 108	0.39 0.34 0.20 0.12 0.06 0.09 0.06 0.09

PX-16 6 Apr 52		00 EST pth 35	Weath Wind N Air 9	WSW-3
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5			118 136	0.56 0.47
10 15 20			138 128 118	0.47 0.29 0.13
25 30 31			308 118 118	0.13 0.18 0.18

PX-16 0500 EST 6 Apr 52 Depth 35'			Wind	her 02 WSW-4 8.9°C
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30 31			113 162 163 128 117 115 115	0.41 0.51 0.47 0.29 0.13 0.13 0.18 0.29

PX-16 0400 EST 6 Apr 52 Depth 35			Weath Wind Air 8	
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	Speed (kts)
0 5 10 15 20 25 30 31		 	158 155 158 128 120 118 119	0.52 0.58 0.54 0.39 0.26 0.13 0.18

PX-16 0600 EST 6 Apr 52 Depth 35'			Wind	ther 03 WST-4 8.9°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 31			138 148 147 117 108 107 125 128	0.37 0.45 0.41 0.22 0.13 0.22 0.22 0.26

İ

			00 EST pth 33'	Weath Wind Air 8	WSW-3
i	Depth (ft)	Temp	Sal (o/oo)	Cur Dir (^O T)	rent Speed (kts)
I	0 5			108 113	0.14
	10 15 20			115 0 0	0.09 0.00 0.00
I	25 30			325 338	0.20 0.22

PX-16 6 Apr		O EST th 33'	Weath Wind \ Air 1	wsw-4
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 25 30	12.35 12.34 12.29 11.84 10.38 9.31 8.48	8.20 8.25 8.41 10.00 10.65 11.24 11.70	318 315 313 331 339 338 335	0.09 0.18 0.29 0.51 0.67 0.65 0.45

PX-1 6 6 Apr 5	PX-16 080 6 Apr 52 Deg		Weath Wind Air -	WSW-3
Depth (ft)	Temp	Sal (0/00)	Cur Dir (Og)	rent Speed (kts)
0 5 10 15 20 25 30	12.48 12.49 12.52 12.43 10.65 9.22 8.62	8.06 8.07 8.42 8.85 10.55 11.28 11.65	331 332 309 338 336 336 338	0.14 0.11 0.14 0.24 0.59 0.62 0.68

PX-16 6 Apr		00 EST pth 33°	Wind	her 03 WSW-4 11.1°C
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30	12.31 12.29 12.26 12.06 11.10 9.56 8.68	8.28 8.31 8.40 9.10 10.36 11.14 11.66	109 330 333 328 332 330 330	0.11 0.16 0.24 0.62 0.81 0.46 0.36

		EST th 33'	Weathe Wind W Air 11	ISW-4
Depth (ft)	Temp (°C)	Sal (0/00)	Curr Dir (°T)	ent Speed (kts)
0 5 10 15 20 25 30	12.24 12.23 12.20 12.04 11.16 9.57 8.48	8.44 8.52 8.56 9.53 10.30 11.27	0 0 303 333 328 326 323	0.00 0.00 0.19 0.27 0.66 0.42 0.29

<u>-</u>		EST th 33	Weathe Wind W Air ll	SW-5
Depth (ft)	Temp	Sal (o/co)	Curr Dir (OT)	ent Speed (kts)
0 5 10 15 20 25 30	12.17 12.17 12.15 11.72 10.44 8.63 8.53	8.54 8.54 8.59 9.71 10.87 11.65 11.68	108 103 322 333 334 332 334	0.24 0.11 0.09 0.15 0.28 0.29 0.26

		O EST th 33'	Weath Wind W Air 1	WSW-5
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30 35	12.18 12.18 12.17 12.00 10.38 9.32 8.56 9.32	8.50 8.50 8.50 9.14 10.70 11.45 11.71 11.28	118 303 0 330 333 333 332	0.29 0.22 0.00 0.18 0.45 0.54

		DEST th 31'	Weathe Wind W Air 11	isw-6
Depth (ft)	Temp (°C)	Sal (o/oo)	Curr Dir (°T)	Speed (kts)
0 5 10 15 20 25 29	12.14 12.12 12.06 11.52 9.41 8.53 8.32	8.60 8.61 8.75 9.81 11.51 11.74 11.75	107 103 106 334 335 334 331	0.24 0.27 0.11 0.12 0.20 0.21 0.19

1	PX-21 5 Apr 5	•	EST h 25°	Weath Wind Mind Air 25	W-3
				Cur	
_	Depth (ft)	Temp	Sal (0/00)	Dir (°T)	Speed. (kts)
I	0 5	13.25 13.10	7.70 7.81	120 133	0.43 0.56
Ι	10 15	13.09 13.07	7.82 7.83	214	0.73
-	20 22	12.72 12.59	7.96 8.00	217	0.61
1					

 PX-21 5 Apr 5		EST h 23'	Weath Wind Air 2	W-3
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20	13.30 13.33 13.29 13.21 13.03	7.69 7.69 7.70 7.75 8.06	123 139 190 177	1.19 1.15 1.06 1.10

S. Perental	PX-21 5 Apr	•	EST th 25'	Weath Wind Air]	_ 1
	Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
	0 5 10 15 20	13.20 13.20 13.15 13.05 13.05	7.52 7.51 7.53 7.62 7.65	149 171 160 159 155	0.92 0.73 0.81 0.73 0.53

PX-21 5 Apr 52	1800 EST Depth 25	Weather 1 ¹ 5 Wind W-3 Air 16.7°C
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			Cur	rent
Depth	Temp	Sal	Dir	Speed
(ft)	(°C)	(o/oo)	(°T)	(kts)
0	13.42	7.05	153	0.82
5	13.40	7.05	175	0.65
10	13.31	7.25	175	0.41
15	13.28	7.38	174	0.39
20	13.23	7.48	175	0.26

PX-21 5 Apr	-	ol EST eth 38'		her 02 WNW-3
Depth (ft)	Temp	Sal (5/00)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 30	13.44 13.42 13.36 13.35 13.35 13.35	6.74 6.76 6.87 7.07 7.09 7.14 7.22	0 0 0 0 0 0 0 338	0.00 0.00 0.00 0.00 0.00 0.00 0.29

PX-2 5 Ap		colo EST epth 38'		ather 02 nd WNW-2
Dept		Sal (0/00)	Cw Dir (OT)	rrent Speed (kts)
0 5 10 15 20 25 32	13.35 13.36 13.37 13.37 13.37 13.17	6.80 6.85 6.95 6.94 7.02 7.48	0 547 344 346 343 343 345	0.00 0.14 0.20 0.22 0.28 0.33 0.36

PX-21 2107 EST 5 Apr 52 Depth 25'				her 02 NW-2
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 24 25	13.17 13.18 13.18 13.17 13.09 13.06	7.50 7.50 7.53 7.71 7.80 7.88	349 349 350 349 351 351	0.19 0.24 0.23 0.19 0.19

PX-21 6 Apr	PX-21 0007 6 Apr 52 Dept		Weathe Wind W Air -	
Depth (ft)	Temp (°C)	S&l (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 24	13.01 13.07 13.06 12.96 12.91 12.89	7.72 7.74 7.77 7.93 8.04 8.11	000000	0.00 0.00 0.00 0.00 0.00

		EST th 25'	Weather 02 Wind NW-1 Air -		
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)	
0 5 10 15 20 25	13.29 13.31 13.34 13.35 13.31 13.27	7.22 7.23 7.24 7.60 7.68 7.73	350 347 346 345 345 346	0.24 0.31 0.28 0.28 0.24 0.27	

PX-21 6 Apr :		EST th 25°	Weather 02 Wind WNW-1 Air 10.6°C		
Depth (ft)	Temp (OC)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)	
0 5 10 15 20 23	13.07 13.08 13.01 12.98 12.94 12.94	7.53 7.59 7.85 7.96 8.02 7.99	160 160 170 0 0	0.52 0.51 0.47 0.00 0.00	

PX-21 5 Apr 5		EST th 24°	Weath Wind Air -	WNW-1
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 24	13.11 13.10 13.07 13.06 13.02	7.69 7.73 7.79 7.85 7.87 7.92	79 347 348 347 346 376	0.26 0.26 0.39 0.43 0.37 0.31

PX-21 6 Apr	PX-21 0200 6 Apr 52 Dept		Weath Wind W Air l	MIM
Depth Temp (oc)		Sal (c/cc)	Cur. Dir (OT)	rent Speed (kts)
0 5 10 15 20 23	12.99 12.98 12.98 13.06 12.98 12.90	7.37 7.38 7.60 7.74 7.94 8.05	114 113 176 177 176	0.24 0.15 0.36 0.37 0.28

PX-21 6 Apr		oo EST pth 25	Wind	ber C2 WNW-1 8.89°C	PX-21 6 Apr		O EST oth 25'	Wind	ner 03 WNW-2 7.78°C
Depth	Temp (°C)	Sal (0/00)	Cur Dir (OT)	Speed (kts)	Depth (ft)	Temp	Sal (0/00)	Cur Dir (2T)	rent Speed (kts)
0 5 10 15 20 25	13.09 13.14 13.04 13.06 13.05	6.24 6.25 7.01 7.44 7.57 7.62	155 177 165 167 166 165	0.97 0.97 0.68 0.61 0.54 0.46	0 5 10 15 20 25	13.03 13.02 13.06 13.18 13.19 13.17	5.37 5.34 5.57 5.86 6.04 6.16	152 180 182 178 175 175	1.05 0.77 0.80 0.65 0.58 0.46
PX-21 6 Apr		oc EST	Wind	her 02 W-2 8.89°C	FX-21 6 Apr		00 EST oth 25'	Wind	er 02 WNW-3 3.33°C
D 41				rent		_			rent
Depth (ft)	Temp	Sal (0/00)	Dir (OT)	Speed (kta)	Depth (ft)	Temp	Sal (o/oo)	Dir (OT)	Speed (kta)
0 5 10 15 20 25	13.04 13.08 13.17 13.19 13.17	6.21 6.18 6.25 6.57 6.81 6.95	147 188 187 168 172 172	0.98 0.93 0.80 0.77 0.71 0.68	0 5 10 15 20	13.02 13.13 13.14 13.10 13.09	4.92 5.18 5.55 5.64 5.82	0 158 156 154 158	0.00 0.20 0.16 0.21 0.16
X-21 Apr		00 EST pth 25'		ner 03 WNW-2 7.78	PX-21 5 Apr		O EST	Weath Wind Air 8	W-3
			Cur						
Depth (ft)	Temp (°C)	Sal (0/00)	Dir (OT)	Speed (kts)	Depth (ft)	Temp	Sal (o/oo)	Dir (OT)	Speed (kts)
0 5 10 15 20 25	13.12 13.12 13.14 13.16 13.14 13.13	5.78 5.79 5.95 6.40 6.47 6.50	135 185 183 166 165	0.68 0.7 ¹ 4 0.80 0.80 0.71	0 5 10 15 20 23	12.94 12.96 13.06 13.10 13.20 13.22	4.97 5.00 5.20 5.73 5.91 6.07	348 348 348 65 355	0.21 0.23 0.19 0.11 0.19

PX-21 0910 6 Apr 52 Depth		EST h 33'	Weather Wind Si Air 10	W-2
Depth Temp		Sal (o/oo)	Curr Dir (OT)	ent Speed (kts)
0 5 10 15 20 25 30 34	12.9 ¹ , 12.98 12.94 13.20 13.10 12.98 11.62 11.5 ⁴	5.37 5.53 6.16 6.30 6.40 6.52 8.52 8.62	35 0 48 8 346 22 2	0.19 0.29 0.29 0.68 0.82 0.68 0.74 0.70

PX-21 6 Apr 5	110; 2 Dep	Weathe Wind W Air 11	<i>I</i> -2	
Depth (ft)	Temp (°C)	Sal (o/oo)	Curr Dir (°T)	ent Speed (kts)
0 5 10 15 20 25 30 33	12.66 12.70 12.70 12.88 12.84 12.80 12.75 12.72	6.65 6.65 6.66 7.11 7.92 8.20 8.27 8.33	0 0 320 325 326 331 35 28	0.00 0.00 0.35 0.41 0.42 0.46 0.65 0.58

***		EST th 33	Weathe Wind S Air 23	5W-3
Depth Temp (ft) (°C)		Sal (o/oo)	Curi Dir (OT)	cent Speed (kts)
0 5 10 15 20 25 30 34	12.94 12.95 12.97 12.96 12.92 12.88 12.88	6.19 6.20 6.20 6.25 7.63 7.57 7.59 7.64	78 1 32 316 341 8	0.45 0.58 0.73 0.61 0.49 0.58 0.65

		5 EST th 33'	Weath Wind Wind Air .	W-2
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 16 15 20 25 30 32	12.64 12.66 12.67 12.63 12.61 12.23 12.05 11.95	6.90 6.93 7.75 7.97 8.11 8.67 8.98 9.14	0 6 0 0 0 0 0	0.00 0.41 0.00 0.00 0.00 0.00 0.00

PX-21 6 Apr 5		EST th 30'	Weath Wind Air l	W-2
Depth Temp (oC)		Sal (0/00)	Dir	rent Speed (kts)
 0 5 10 15 20 25 29	12.70 12.69 12.69 12.69 12.02 11.74 11.68	7.04 6.97 6.95 6.98 8.73 9.19 9.26	 34 0	 0.00 0.46 0.00

PX-21 6 Apr 5	1400 52 Dep	Wind	er 02 94-2 2.2°C	
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 25 28	12.67 12.68 12.77 12.57 11.96 11.95 11.95	6.66 6.64 6.98 8.01 8.89 8.93 8.95	357 198 175 202 26 348	0.19 0.33 0.27 0.15 0.12 0.14

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To Separate

		O EST th 13'	Weathe Wind W Air 12	1-4
Depth (ft)	Temp (°C)	Sal (o/oo)	Curr Dir (OT)	ent Speed (kts)
0 5 9	12.84 12.87 12.88	2.70 2.85 3.30	141 176 201	1.19 1.07 0.78

PX-23 1900 EST 6 Apr 52 Depth 13'		Weather 03 Wind W-3 Air 11.7°C		
Depth Temp (ft) (°C)		Sal (0/00)	Cur. Dir (^O T)	rent Speed (kts)
0 5 9	12.83 12.83 12.83	1.26 1.37 1.51	188 233 233	0.54 0.30 0.26

		0 EST th 13'	Weathe Wind W Air 11	1-4
Depth (ft)	Temp (°C)	Sal (o/co)	Curr Dir (°T)	Speed (kts)
0 5 9	12.80 12.81 12.84	2.15 2.32 3.01	160 158 143	1.03 0.93 0.53

PX-23 2000 EST 6 Apr 52 Depth 13'		Weath Wind Air 1	W-4	
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (k†8)
0 5 9	12.79 12.70 12.69	1.32 1.47 1.67	87 85 31 0	0.06 0.18 0.22

_		O EST th 13°	Weathe Wind W Air 11	1-4
Depth (ft)	Temp	Sal (c/oo)	Curi Dir (°T)	cent Speed (kts)
0 5 9	12.86 12.89 12.88	1.57 1.67 1.94	144 158 148	1.03 0.74 0.53

		O EST th 13'	Weath Wind Air 1	W-3
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 9	12.64 12.83 12.49	1.47 1.90 2.60	003 003 001	0.46 0.55 0.55

PX-23 2200 E 6 Apr 52 Depth			Weathe Wind W Air 9	I- 2
Depth (ft)	Temp	Sal (o/oo)	Cur: Dir (^C T)	rent Speed (kts)
0 5 9	12.29 12.44 12.51	2.67 3.91 3.93	13 11 13	0.89 0.95 0.59

		oo EST oth 12'	Weathe Wind I Air 8	NW-3
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10	11.82 11.97 12.07	4.05 4.25 4.38	0 0	0.00 0.00 0.00

		EST th 13°	Weath Wind Air 8	W-3
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (^O T)	rent Skeed (kts)
0 5 9	12.18 12.24 12.27	3.18 3.73 4.08	359 003 003	0.87 0.78 0.62

		00 EST pth \12'	Weath Wind : Air 8	NW÷3
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 9 2	11.85 11.86 11.94	3.96 3.99 4.22	128 148 146	0.28 0.14 0.14

PX-23 7 Apr 5	PX-23 0000 7 Apr 52 Der		Weather 03 Wind W-3 Air 8.9°C	
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 9	11.88 11.89 12.05	3.68 4.01 4.27	359 358 358	0.42 0.62 0.55

			OC EST pth 12'	Weath Wind Air 8	NW-2
	Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
,	0 5 9	11.52 11.75 11.86	3.46 3.75 3.93	147 147 153	0.72 0.66 0.36

PX-23 7 Apr 52	PX-23 0400 EST 7 Apr 52 Depth 12		Weathe Wind N Air 7	WM-5
Depth (ft)	Temp (°C)	Sal (o/oo)	Curr Dir (OT)	ent Speed (kts)
0 5 9	11.60 11.91 12.02	2.40 2.94 4.08	167 167 167	1.22 0.92 0.42

		O EST th 12'	Weathe Wind V	<i>I</i> -].
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (^O T)	Speed (kts)
o 5 8	11.87 12.04 12.20	0.80 1.85 2.48	163 163 163	0.69 0.62 0.44

PX-23 0500 EST 7 Apr 52 Depth 12			Weather Wind 1	NNW-1
Depth (ft)	Temp	Sel (o/oc)	Cur Dir (OT)	rent Speed (kts)
0 5 9	11.72 12.02 12.17	1.50 2.52 3.83	161 161 161	1.25 0.93 0.53

1		oo EST th 12'	Weath Wind Air 9	
Depth (ft)	Temp	Sal (0/00)	Curr Dir (°T)	cent Speed (kts)
o 5 8	11.97 11.93 11.97	0.75 1.40 1.79	158 0 0	0.26 0.00 0.00

		o EST th 12'	Weath Wind Air 7	W-1
Depth (ft)	Temp	Sal (0/00)	Cur Dir (OT)	rent Speed (kts)
0 5 cs	11.82 12.16 12.17	1.02 2.15 2.97	163 163 163	1.07 0.69 0.44

		OO EST	Weathe Wind 1 Air 7	WW-2
Depth (ft)	Temp (°C)	Sal (o/co)	Curr Dir (°T)	rent Speed (kts)
o 5 8	11.88	1.18 2.15 3.47	120 003 358	0.14 0.46 0.81

		EST h 11'	Weath Wind Air (
Depth (ft)	Temp	Sal (0/00)	Curi Dir (^O T)	rent Speed (kts)
0 5 - -i2	11.75 11.66 11.91	1.66 2.95 5.58	053 010 014	0.46 0.59 0.62

		0 EST th 12'	Weathe Wind I Air le	NW-3
Depth (ft)	Temp	Sal (o/oo)	Curi Dir (OT)	Speed (kts)
0 5 9	11.53 11.55 11.57	3.83 4.00 4.90	006 004 008	0.36 0.42 0.46

		EST h 11°	Weath Wind Air 8	NW-3
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 8 2	11.56 11.40 11.60	2.67 2.74 4.93	358 345 343	0.75 0.81 0.78

		oth 12'	Weath Wind Air 1	NW-2
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 9 ^글	11.53 11.46 11.36	3.86 5.31 6.39	011 017 016	0.09 0.12 0.16

W		EST h 11*	Weath Wind Air 8	NW-4
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 9	11.35 11.31 11.57	3.27 3.28 4.62	358 000 358	0.72 0.75 0.55

7 Apr	PX-23 :50 7 Apr 52 Dep		Weath Wind Air 1	
Depth (ft)	Temp	Sal (9/00)	Cur Dir (OT)	rent Speed (kts)
0 5 9	11.60 11.50 11.22	3.55 4.53 7.00	181 181 184	0.37 0.20 0.25

		EST th 13'	Weath Wind W Air 12	N-1
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (om)	rent Speed (kts)
0 5 10	13.46 13.48 13.49	0.15 0.15 0.15	208 194 180	0.68 0.88 0.68

FX-26 2004 E 6 Apr 52 Depth			Weath Wind Air 1	
Depth (ft)	Temp (℃)	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10	13.42 13.42 13.12	0.05 0.07 0.12	205 208 207	0.46 0.46 0.41

PX-26 1800 EST 6 Apr 52 Depth 12			Weath Wind Air 1	W-1
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10	13.54 13.57 13.58	0.09 0.09 0.10	209 009 005	0.71 0.71 0.68

		oth 11'	Weath Wind Air 1	M-5
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10	13.38 13.39 13.36	0.07 0.07 0.11	031. 001 001	0.19 0.24 0.24

PX-26 1900 EST 6 Apr 52 Depth 12'		Weath Wind Air l	W-2	
Depth (ft)	Temp	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 10	13.50 13.48 13.18	0.07 0.08 0.18	205 205 207	0.49 0.46 0.35

		oth 11'	Weather 02 Wind W-1 Air 11.1°C	
Depth (ft)	Temp	Sal (0/00)	Cwr Dir (OT)	rent Speed (kts)
0 5 10	13.14 13.12 13.05	0.10 0.17 0.23	003 002 002	0.97 0.81 0.73

PX-26 6 Apr 52	PX-26 2305 EST 6 Aur 52 Depth 11			er 03 V-1 L.7°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10	12.94 12.75	0.20 0.24 0.37	013 011 010	0.61 0.61 0.49

PX-26 0200 7 Apr 52 Dept		EST h 12	Weather Wind Walr 8.	1-2
Depth (ft)	Temp	Sal (0/00)	Curr Dir (^O T)	ent Speed (kts)
0 5 10	12.33 12.53 12.51	0.40 0.52 0.59	201 193 203	0.20 0.23 0.27

		o EST th 42'	Weath Wind Air 9	W-1
Depth (ft)	Temp (°C)	Sal (°/00)	Cur Dir (°T)	rent Speed (kts)
0 5 10	12.59 12.59 12.59	0.52 0.52 0.64	023 011 015	0.18 0.29 0.22

•		EST tn 12'	Weather Wind V Air 8	1- 2
Depth (ft)	Temp	Sal (o/oo)	Curr Dir (OT)	Speed (kts)
0 5 10	12.38 12.45 12.46	0.40 0.48 0.52	199 199 229	0.58 0.71 0.65

FX-26 7 Apr 5	PX-26 C100 EST 7 Apr 52 Depth 12'		Wind	er 03 W-1 .89°C
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10	12.54 12.59 12.55	0.52 0.52 0.59	351 354 005	0.19 0.19 0.20

		DEST th 12'	Weath Wind Air 7	W-2
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 10	12.53 12.58 12.59	0.24 0.24 0.24	197 197 177	0.98 1.10 1.03

PX-26 0500 EST 7 Apr 52 Depth 12'			Weath Wind Wind Air 6	W-1
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (°T)	Speed (kts)
0 5 10	12.79 12.81 12.80	0.12 0.13 0.14	194 184 194	0.93 0.90 0.77

PX-26 0800 EST 7 Apr 52 Depth 11'		Weather 02 Wind SW-1 Air 10.0°C		
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10	12.69 12.62 12.54	0.06 0.07 0.08	206 208 208	0.29 0.29 0.35

		EST th 12	Weath Wind Air 6	W-1
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 9	12.84 12.84 12.84	0.08 0.08 0.08	185 185 185	0.74 0.77 0.68

PX-26 0900 EST 7 Apr 52 Depth 11'		Weath Wind Air 1	SW-1	
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 10	12.72 12.71 12.59	0.06 0.07 0.08	0 346 22	0.00 0.12 0.19

		O EST th 11'	Wind	er 02 SW-1 .78°C
Depth (ft)	Temp	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 1 0	12.81 12.82 12.82	0.07 0.07 0.07	182 182 207	0.35 0.35 0.41

		o EST	Weath Wind Air l	W-2
Depth (ft)	Temp (°C)	Sa] (c/cc)	Cur Dir (OT)	rent Speed (kts)
0 5 1 0	12.69 12.71 12.71	0.07 0.07 0.07	023 013 012	0.24 0.20 0.25

-	PX-26 1100 7 Apr 52 Dept		EST h 11'	Weathe Wind I Air 11	INW-2
	Depth (ft)	Temp (°C)	Sal (o/oo)	Curi Dir (OT)	ent Speed (kts)
	0 5 10	12.57 12.55 12.55	0.12 0.12 0.12	358 357 357	0,29 0.34 0.22

		DEST th 12'	Weath Wind : Air 1	WW-2
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (OT)	rent Speed (kts)
0 5 10 12	12.21 12.17 12.17 12.17	0.34 0.36 0.36 0.36	0 0 0	0.00 0.00 0.00

FX-26 1200 7 Apr 52 Depth		EST th 11'	Weath Wind 1 Air 1	NNW-2
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 10	12.39 12.31 12.06	0.18 0.20 0.27	323 359 358	0.68 0.53 0.53

		BST th 12'	Weathe Wind l	NNM-5
Depth (ft)	Temp (°C)	Sal (0/00)	Cur.	Speed (kts)
0 5 10	12.31 12.27 12.25 12.23	0.28 0.28 0.31 0.32	195 196 197	0.25 0.29 0.28

_		+ EST th 12'	Weath Wind Air l	NNW-2
Depth (ft)	Temp (°C)	Sal (o/oc)	Cur Dir (OT)	rent Speed (kts)
0 5 10 12	12.35 12.30 12.17 12.11	0.27 0.28 0.29 0.31	015 017 017	0.46 0.41 0.41

PX-26 1600 EST 7 Apr 52 Depth 11'			Wind	ner 02 NNW-2 12.8°C
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 11 =	12.45 12.42 12.41 12.41	0.16 0.17 0.18 0.18	197 195 194	0.73 0.74 0.74

		EST th 24'	Weather Wind N Air 11	W-2
Depth (ft)	Temp	Sal (0/00)	Curr Dir (°T)	Speed (kts)
0 5 10 15 20 21	12.45 12.46 12.47 12.47 12.47 12.47	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01	183 183 183 183 183	0.97 0.95 1.05 1.00 0.81

		O EST th 24'	Weath Wind : Air l	NW-2
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 21	12.18 12.20 12.20 12.22 12.22	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01	193 192 193 191 184 172	0.69 0.69 0.69 0.66 0.69

PX-29 7 Apr 5	180 2 Dep	O EST th 24'	Weathe Wind N Air 11	W-2
Depth (ft)	Temp (°C)	Sal (o/oo)	Curr Dir (CT)	Speed (kts)
0 5 10 15 20 21	12.26 12.27 12.27 12.29 12.28 12.20	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01	181 183 192 181 184	0.84 0.97 0.95 0.86 0.81

		O EST th 24'	Weath Wind Air 9	NW-2
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 21	12.10 12.14 12.13 12.15 12.15 12.15	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01	175 183 276 185 178 217	0.29 0.31 0.43 0.34 0.29 0.41

		EST th 24°	Weathe Wind N Air 9.	W-2
Depth (ft)	Temp	Sal (o/oo)	Curr Dir (CT)	ent Speed (kts)
0 5 10 15 20 21 22	12.07 12.08 12.10 12.10 12.08 12.08	(0.01 (0.01 (0.01 (0.01 (0.01 (0.01	019 019 020 019 034	0.43 0.41 0.41 0.37 0.31

		EST th 24'	Weathe Wind 1 Air 8	W-l
Depth (ft)	Temp (°C)	Sal (0/00)	Curr Dir (OT)	cent Speed (kts)
0 5 10 15 20 21 23	12.17 12.18 12.20 12.16 12.13 12.15	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01	013 013 013 013 013 	1.07 1.12 1.21 1.07 1.12

PX-29 7 Apr 5	PX-29 2200 7 Apr 52 Dep		Weathe Wind I Air 8	W-1
			Cur	rent
Depth (ft)	Temp	Sal (o/oo)	Dir (or)	Speed (kts)
0	12.08	<0.01	015	0.92
5	12.09	<0.01	015	0.97
10	12.08	<0.01	015	0.89
15	12.04	<0.01	015	0.95
20	12.02	<0.01	015	0.84
21	12.02	<0.01		
24		·- ·	015	0.72

H

		O EST th 24'	Weath Wind Air 6	NW-1
Depth (ft)	Temp (°C)	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 21	12.25 12.26 12.24 12.22 12.23 12.23	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01	012 012 012 013 012 013	0.87 1.03 1.16 0.98 0.82 0.74

/		EST th 26'	Weather Wind I Air 6	W-1
Depth (ft)	Temp	Sal (0/00)	Curr Dir (oT)	Speed (kts)
0 5 10 15 20 21	12.28 12.30 12.30 12.29 12.30 12.50	0.01 0.01 0.01 0.01 0.01	017 017 017 017 017 	0.62 0.69 0.69 0.69 0.74

PX-29 8 Apr 5	o RST th 26'	Weath Wind Air ó	0	
Depth (ft)	Temp	Sal (o/co)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 22 23	12.26 12.26 12.26 12.24 12.24 12.22	0.01 0.01 0.01 0.01 0.01 0.01	196 196 195 194 196 200	0.06 0.06 0.09 0.09 0.11

		0 EST th 26'	Weath Wind Air 6	0
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 21 23	12.28 12.28 12.28 12.28 12.28 12.28	0.01 0.01 0.01 0.01 0.01 0.01	010 010 010 010 005 	0.25 0.34 0.41 0.37 0.29

		0 EST th 2 5'	Weath Wind Air 5	0
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 22 ¹ / ₂ 23	12.10 12.10 12.10 12.12 12.08 12.10	0.01 0.01 0.01 0.01 0.01 0.01	183 184 182 181 184 181	0.82 0.74 0.69 0.74 0.74

			0 EST th 25°	Weather Wind O)
I	Depth (ft)	Temp	Sal (o/oo)	Curr Dir (°T)	ent Speed (kts)
	0 5 10 15 20 22 ½ 22	11.98 11.99 11.98 11.98 12.02	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01	185 182 183 183 183 183	0.98 1.07 1.07 1.07 1.12

		0 EST th 25°	Weath Wind Air 7	N-2
Depth (ft)	Temp	Sal (o/oo)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 21 23	11.43 11.43 11.43 11.43 11.43	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01	193 180 181 193 175 188	0.87 0.98 0.93 1.03 1.03

		oo EST oth 25°	Weath Wind (Air 5	0
Depth (ft)	Temp (°C)	Sal (º/ºo)	Cur Dir (OT)	rent Speed (kts)
0 5 10 15 20 22 22 22 2	11.85 11.86 11.85 11.86 11.87	<0.01 <0.01 <0.01 <0.01 <0.01 <0.01	182 183 178 183 184 184	1.07 1.16 1.16 1.16 1.12 1.03

		OO EST oth 25	Weath Wind Air 8	
				rent
Depth (ft)	Temp (°C)	Sal (o/oo)	Dir (°T)	Speed (kts)
0	11.25	<0.01	180	0.82
5	11.25	< 0.01	180	0.69
10	11.24	< 0.01	184	0.82
15	11.24	<0.01	180	0.69
20	11.24	< 0.01	1 8 ^j 4	0.69
21	11.24	< 0.01	~	
22	~~	a.	175	0.14

PX-29 8 Apr 5		O EST th 25'	Weath Wind Air 9	N-1
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (OT)	Speed (kts)
0	11.21	0.01	141	0.22
5 10	11.14	0.01	158	0.18 0.22
15	11.10	0.01	165	0.22
20	11.10	0.01	150	0.26
21	11.10	0.01		
22			181	0.39

		0 EST th 26'	Weath Wind Air 1	NW-1
Depth (ft)	Temp (°C)	Sal (0/00)	Cur Dir (°T)	rent Speed (kts)
0 5 10 15 20 21	11.65 11.39 11.37 11.37 11.43 11.45	0.01 0.01 0.01 0.01 0.01 0.01	020 020 020 010 010 	1.24 1.17 1.17 1.14 1.07

		EST th 25'	Wind	er 01 N-1 1.1°C
			Cur	rent
Depth (ft)	Temp	Sal (0/00)	Dir (OT)	Speed (kts)
0 5 10 15 20 21 23	11.63 11.11 11.07 11.04 11.04	0.01 0.01 0.01 0.01 0.01 0.01	015 005 000 358 343 348	0.58 0.61 0.49 0.51 0.52

PX-29 1200 EST 8 Apr 52 Depth 26'		Weath Wind : Air 1	NW-1	
Depth (ft)	Temp (°C)	Sal (o/oo)	Dir (OT)	rent Speed (kts)
0 5 10 15 20 21 23	11.71 11.70 11.67 11.65 11.62 11.63	0.01 0.01 0.01 0.01 0.01 0.01	014 013 011 011 013 023	1.12 1.21 1.21 1.12 1.12 0.98

I			EST h 27°	Weathe Wind W Air 12	NW-2
T					rent
7	Depth (ft)	Temp	Sal (0/00)	Dir (°T)	Speed (kts)
1.	0	12.07	0.01	028	0.93
,	5	11.92	0.01	027	0.93
	10	11.89 11.88	0.01	023	0.93 0.87
1 .	15 20	11.87	0.01	008	0.82
1	23	11.86	0.01	356	0.93

			O EST th 27'	Weath Wind Air 1	WSW-2
- minimum - mini	Depth (ft)	Temp	Sal (o/oo)	Cur Dir (OT)	rent Speed (kts)
manufacture and the second	0 5 10 15 20 23	12.14 12.08 11.99 12.00 12.00 11.99	0.01 0.01 0.01 0.01 0.01 0.01	009 013 013 013 013 023 023	0.46 0.50 0.50 0.59 0.42 0.46

	FA-29 8 Apr (•	00 EST oth 27°	Wind	ner 03 0 12.2°C
-	Depth (ft)	(oC) Lemb	Sal (o/oo)	Cur Dir (OT)	rrent Speed (kts)
I	0 5 10 15 20 23	12.17 12.17 12.12 12.10 12.11 12.11	0.01 0.01 0.01 0.01 0.01	003 183 0 0 0	0.12 0.09 0.00 0.00 0.00 0.00

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		800mp		0.052	0.000	0.038	0,040		0.067	0.068	0.097	707.0		0.301	0.520		- C	1,166		0 048	0.046	0.025	0.065
Chemical Data	Turbidity	600mg		0.065	0.050	0.052	J . U>0		0.097	0.091	0.129	0.509		0.378	0.400		זי, ר	1.857		020	0.057	0.00 0.00 0.00 0.00 0.00	0°00°C
	Tr	LOOM		0.098	0.132	0.120	201.0		0.172	0.144	0.211	0.00		0.590	0.928		ניוס	2,721		ורר ס	0.087	0.113	0.119
	Alk.	(mg at/L)		ן כ	1.28	1-42	1.36		1,31	1,16	1,17	1,30		1,20	1,20		6	0.92		70 ر	1.73	1.63	1.69
	$PO_{\underline{M}}$	(Mg at/L)		0.36	0.16	0.25	9.21		0.39	0.16	0.17	0,28		18.0	\$ G		7, 6	0.92		01.0	0.00	0.10	0°°C
	Chloro.	(μg,/L)		#: •°	2007	1,23	79•17		7.27	4, 00 5,09	100 m	5.77		10.56	12,10		٦ ٢	1,30		11.3]	17.	3,33	2,31
	חי	ro,		7.99	7.82	ति । इ.स.	7.70		ਨ• ਨੂੰ	2,8 2,2	7.73	7.50		7.68	69°2 2°69		11.	7,32		7.77	7.77	7.69	7.53
	02	(m1/L)		5,36	7,7 0,10	76.7	₹°04		5.59	ν, Ψ.	88	4.22		ア. 元.	유 급		77	22,00		5.23	2,70		4.79
	Depth	(ft)		0;	25	ر جار ر	45		c (50	(E)	45		0	20.02		Ć) CI		0	10	S & 3	45
	Date	Time	1/3/52	1330	1. የመተ የ	1530	1610	17/17/25	1345	1430	1505	1530	75/27	1500	1520	1,16/52	1704	1720	14/8/52	0715	07/10	0000 00000	0845
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